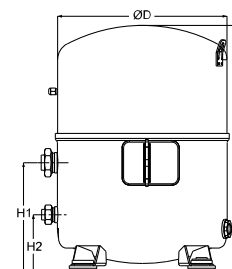


**General Characteristics**

Model number (on compressor nameplate)		<b>VTZ171AGNR1A</b>
Code number for Singlepack*		120B0005
Drawing number		8504018a
Suction and discharge connections		Rotolock
Suction connection		1-3/4 " Rotolock
Discharge connection		1-1/4 " Rotolock
Suction connection with supplied sleeve		1-1/8 " ODF
Discharge connection with supplied sleeve		3/4 " ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		30 bar / 8 bar
Cylinders	4	
Swept volume	171.26 cm3/rev	
Net weight	60 kg	
Oil charge	3.9 litre, POE - 160PZ	
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)	
Maximum differential test pressure	30 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	5 kg	
Approved refrigerants	R404A, R507A, R134a, R407C	

**Dimensions**


D=352 mm

H=518 mm

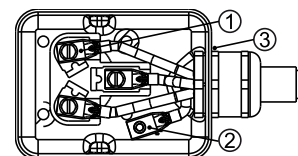
H1=233 mm

H2=125 mm

H3=- mm

**Electrical Characteristics**

Nominal voltage	Frequency converter CD302 required with supply voltage 380-480V/3/50-60Hz
Voltage range	342-528 V supply to frequency converter
Winding resistance (between phases) +/- 7% at 25°C	0.67 Ω
Rated Load Amps (RLA)	30.5 A
Maximum Must Trip current (MMT)	38.1 A
Locked Rotor Amps (LRA)	130 A
Motor protection	Motor protection by frequency converter

**Terminal box**


IP54 (with cable gland)

1: Power connection, 3 x 4.8 mm (3/16")

2: Earth M4

3: Hole Ø 33 mm (1.30")

**Recommended Installation torques**

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	50 Nm

**Parts shipped with compressor**

Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

**Approvals** : CE certified, UL certified when connected to frequency converter, -

\*Singlepack: Compressor in cardboard box

**Rotolock accessories, suction side**

**Code no.**

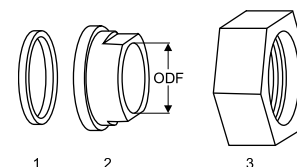
Solder sleeve, P02 (1-3/4" Rotolock, 1-1/8" ODF)	8153004
Rotolock valve, V02 (1-3/4" Rotolock, 1-1/8" ODF)	8168028
Gasket, 1-3/4"	8156132

**Gaskets, sleeves and nuts**

**Rotolock accessories, discharge side**

**Code no.**

Solder sleeve, P04 (1-1/4" Rotolock, 3/4" ODF)	8153008
Rotolock valve, V04 (1-1/4" Rotolock, 3/4" ODF)	8168029
Gasket, 1-1/4"	8156131



- 1: Gasket  
2: Solder sleeve  
3: Rotolock nut

**Rotolock accessories, sets**

**Code no.**

Valve set, V02 (1-3/4"~1-1/8"), V04 (1-1/4"~3/4")	7703009
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

**Oil / lubricants**

**Code no.**

POE lubricant, 160PZ, 1 litre can	7754019
POE lubricant, 160PZ, 2.5 litre can	120Z0573

**Crankcase heaters**

**Code no.**

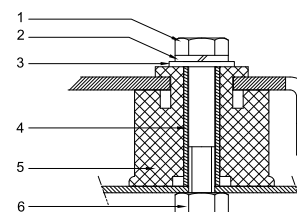
PTC heater 27W, CE mark, UL	120Z0459
Belt type crankcase heater, 65 W, 230 V, CE mark, UL	7773107
Belt type crankcase heater, 65 W, 400 V, CE mark, UL	7773117
Belt type crankcase heater, 65 W, 460 V, CE mark, UL	120Z0466

**Mounting kit**

**Miscellaneous accessories**

**Code no.**

Acoustic hood for 4 cylinder compressor	120Z0473
Oil equalisation nut	8153127



- 1: Bolt (4x)  
2: Lock washer (4x)  
3: Flat washer (4x)  
4: Sleeve (4x)  
5: Grommet (4x)  
6: Nut (4x)

**Spare parts**

**Code no.**

Mounting kit for 4 cylinder compressor & MS, including 4 grommets, 4 bolts	8156007
Oil sight glass with gaskets (black & white)	8156019
Gasket for oil sight glass (black chloroprene)	8156145
Terminal box incl cover	120Z0146
Terminal box cover	120Z0149
T block connector 52 x 57 mm	8173230

**Performance data at 30 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	3 217	4 459	5 977	7 802	9 971	12 516	15 472	-	-
40	2 858	4 030	5 459	7 179	9 224	11 628	14 424	-	-
45	2 498	3 599	4 939	6 552	8 472	10 733	13 369	-	-
50	2 142	3 170	4 420	5 924	7 718	9 835	12 308	-	-
55	1 792	2 746	3 904	5 299	6 965	8 936	11 246	-	-
60	-	-	3 395	4 679	6 216	8 040	10 186	-	-
65	-	-	-	4 068	5 475	7 151	9 131	-	-
70	-	-	-	-	-	6 272	8 084	-	-

**Power input in W**

35	2 039	2 218	2 361	2 477	2 575	2 665	2 756	-	-
40	2 093	2 314	2 492	2 636	2 756	2 862	2 962	-	-
45	2 121	2 391	2 611	2 792	2 942	3 071	3 188	-	-
50	2 116	2 443	2 714	2 938	3 125	3 285	3 427	-	-
55	2 072	2 463	2 792	3 068	3 301	3 499	3 673	-	-
60	-	-	2 841	3 176	3 461	3 705	3 919	-	-
65	-	-	-	3 255	3 600	3 899	4 160	-	-
70	-	-	-	-	-	4 073	4 389	-	-

**Current consumption in A**

35	4.31	4.69	4.99	5.21	5.39	5.54	5.68	-	-
40	4.50	4.93	5.27	5.54	5.75	5.93	6.10	-	-
45	4.61	5.10	5.50	5.82	6.08	6.31	6.52	-	-
50	4.65	5.21	5.67	6.05	6.38	6.66	6.92	-	-
55	4.62	5.26	5.79	6.25	6.64	6.99	7.32	-	-
60	-	-	5.87	6.41	6.88	7.31	7.71	-	-
65	-	-	-	6.53	7.10	7.61	8.10	-	-
70	-	-	-	-	-	7.90	8.49	-	-

**Mass flow in kg/h**

35	78	106	139	178	223	274	333	-	-
40	73	101	134	172	216	267	325	-	-
45	68	95	127	165	209	259	316	-	-
50	62	89	121	158	201	250	307	-	-
55	55	82	113	150	192	241	297	-	-
60	-	-	105	141	183	231	285	-	-
65	-	-	-	132	173	220	273	-	-
70	-	-	-	-	-	208	261	-	-

**Coefficient of performance (C.O.P.)**

35	1.58	2.01	2.53	3.15	3.87	4.70	5.61	-	-
40	1.37	1.74	2.19	2.72	3.35	4.06	4.87	-	-
45	1.18	1.51	1.89	2.35	2.88	3.50	4.19	-	-
50	1.01	1.30	1.63	2.02	2.47	2.99	3.59	-	-
55	0.86	1.11	1.40	1.73	2.11	2.55	3.06	-	-
60	-	-	1.20	1.47	1.80	2.17	2.60	-	-
65	-	-	-	1.25	1.52	1.83	2.20	-	-
70	-	-	-	-	-	1.54	1.84	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	7 718	W
Power input	3 125	W
Current consumption	6.38	A
Mass flow	201	kg/h
C.O.P.	2.47	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 30 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	3 484	4 822	6 452	8 410	10 731	13 451	16 604	-	-
40	3 112	4 380	5 923	7 776	9 974	12 554	15 549	-	-
45	2 737	3 936	5 390	7 136	9 210	11 647	14 483	-	-
50	2 364	3 490	4 855	6 493	8 442	10 736	13 411	-	-
55	1 994	3 048	4 322	5 851	7 672	9 822	12 335	-	-
60	-	-	3 793	5 212	6 906	8 910	11 260	-	-
65	-	-	-	4 581	6 145	8 003	10 190	-	-
70	-	-	-	-	-	7 105	9 128	-	-

**Power input in W**

35	2 039	2 218	2 361	2 477	2 575	2 665	2 756	-	-
40	2 093	2 314	2 492	2 636	2 756	2 862	2 962	-	-
45	2 121	2 391	2 611	2 792	2 942	3 071	3 188	-	-
50	2 116	2 443	2 714	2 938	3 125	3 285	3 427	-	-
55	2 072	2 463	2 792	3 068	3 301	3 499	3 673	-	-
60	-	-	2 841	3 176	3 461	3 705	3 919	-	-
65	-	-	-	3 255	3 600	3 899	4 160	-	-
70	-	-	-	-	-	4 073	4 389	-	-

**Current consumption in A**

35	4.31	4.69	4.99	5.21	5.39	5.54	5.68	-	-
40	4.50	4.93	5.27	5.54	5.75	5.93	6.10	-	-
45	4.61	5.10	5.50	5.82	6.08	6.31	6.52	-	-
50	4.65	5.21	5.67	6.05	6.38	6.66	6.92	-	-
55	4.62	5.26	5.79	6.25	6.64	6.99	7.32	-	-
60	-	-	5.87	6.41	6.88	7.31	7.71	-	-
65	-	-	-	6.53	7.10	7.61	8.10	-	-
70	-	-	-	-	-	7.90	8.49	-	-

**Mass flow in kg/h**

35	78	106	138	177	222	273	332	-	-
40	73	100	133	171	215	266	324	-	-
45	67	95	127	164	208	258	315	-	-
50	61	88	120	157	200	249	305	-	-
55	55	81	113	149	191	240	295	-	-
60	-	-	105	141	182	230	284	-	-
65	-	-	-	131	172	219	272	-	-
70	-	-	-	-	-	207	259	-	-

**Coefficient of performance (C.O.P.)**

35	1.71	2.17	2.73	3.40	4.17	5.05	6.03	-	-
40	1.49	1.89	2.38	2.95	3.62	4.39	5.25	-	-
45	1.29	1.65	2.06	2.56	3.13	3.79	4.54	-	-
50	1.12	1.43	1.79	2.21	2.70	3.27	3.91	-	-
55	0.96	1.24	1.55	1.91	2.32	2.81	3.36	-	-
60	-	-	1.34	1.64	2.00	2.40	2.87	-	-
65	-	-	-	1.41	1.71	2.05	2.45	-	-
70	-	-	-	-	-	1.74	2.08	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	8 675	W
Power input	3 369	W
Current consumption	6.77	A
Mass flow	213	kg/h
C.O.P.	2.58	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 35 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	3 903	5 393	7 207	9 386	11 968	14 994	18 503	-	-
40	3 474	4 883	6 594	8 648	11 083	13 941	17 259	-	-
45	3 040	4 366	5 974	7 901	10 189	12 877	16 004	-	-
50	2 605	3 848	5 349	7 150	9 289	11 806	14 740	-	-
55	2 173	3 330	4 725	6 397	8 386	10 730	13 471	-	-
60	-	-	4 104	5 646	7 483	9 655	12 200	-	-
65	-	-	-	4 901	6 585	8 582	10 931	-	-
70	-	-	-	-	-	7 516	9 668	-	-

**Power input in W**

35	2 400	2 611	2 785	2 931	3 061	3 185	3 315	-	-
40	2 459	2 718	2 929	3 104	3 254	3 389	3 520	-	-
45	2 489	2 806	3 066	3 281	3 461	3 618	3 761	-	-
50	2 476	2 862	3 183	3 449	3 671	3 860	4 027	-	-
55	2 410	2 876	3 268	3 596	3 871	4 104	4 305	-	-
60	-	-	3 309	3 710	4 049	4 337	4 584	-	-
65	-	-	-	3 780	4 194	4 547	4 851	-	-
70	-	-	-	-	-	4 723	5 094	-	-

**Current consumption in A**

35	4.92	5.39	5.74	6.01	6.22	6.39	6.55	-	-
40	5.11	5.63	6.03	6.35	6.61	6.84	7.06	-	-
45	5.23	5.80	6.27	6.65	6.97	7.27	7.55	-	-
50	5.28	5.91	6.45	6.90	7.30	7.67	8.03	-	-
55	5.25	5.96	6.57	7.10	7.59	8.04	8.49	-	-
60	-	-	6.63	7.26	7.83	8.38	8.93	-	-
65	-	-	-	7.35	8.03	8.69	9.34	-	-
70	-	-	-	-	-	8.95	9.73	-	-

**Mass flow in kg/h**

35	95	128	168	214	267	329	399	-	-
40	89	122	161	207	260	320	389	-	-
45	82	115	154	199	251	311	379	-	-
50	75	108	146	191	242	301	368	-	-
55	67	99	137	181	232	289	355	-	-
60	-	-	127	171	220	277	342	-	-
65	-	-	-	159	208	264	327	-	-
70	-	-	-	-	-	249	312	-	-

**Coefficient of performance (C.O.P.)**

35	1.63	2.07	2.59	3.20	3.91	4.71	5.58	-	-
40	1.41	1.80	2.25	2.79	3.41	4.11	4.90	-	-
45	1.22	1.56	1.95	2.41	2.94	3.56	4.26	-	-
50	1.05	1.34	1.68	2.07	2.53	3.06	3.66	-	-
55	0.90	1.16	1.45	1.78	2.17	2.61	3.13	-	-
60	-	-	1.24	1.52	1.85	2.23	2.66	-	-
65	-	-	-	1.30	1.57	1.89	2.25	-	-
70	-	-	-	-	-	1.59	1.90	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	9 289	W
Power input	3 671	W
Current consumption	7.30	A
Mass flow	242	kg/h
C.O.P.	2.53	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 35 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	4 228	5 831	7 780	10 116	12 880	16 114	19 857	-	-
40	3 783	5 307	7 154	9 366	11 985	15 050	18 605	-	-
45	3 332	4 774	6 518	8 605	11 077	13 974	17 338	-	-
50	2 875	4 236	5 876	7 837	10 160	12 887	16 061	-	-
55	2 418	3 696	5 231	7 064	9 238	11 794	14 776	-	-
60	-	-	4 585	6 290	8 314	10 699	13 487	-	-
65	-	-	-	5 519	7 392	9 605	12 199	-	-
70	-	-	-	-	-	8 515	10 916	-	-

**Power input in W**

35	2 400	2 611	2 785	2 931	3 061	3 185	3 315	-	-
40	2 459	2 718	2 929	3 104	3 254	3 389	3 520	-	-
45	2 489	2 806	3 066	3 281	3 461	3 618	3 761	-	-
50	2 476	2 862	3 183	3 449	3 671	3 860	4 027	-	-
55	2 410	2 876	3 268	3 596	3 871	4 104	4 305	-	-
60	-	-	3 309	3 710	4 049	4 337	4 584	-	-
65	-	-	-	3 780	4 194	4 547	4 851	-	-
70	-	-	-	-	-	4 723	5 094	-	-

**Current consumption in A**

35	4.92	5.39	5.74	6.01	6.22	6.39	6.55	-	-
40	5.11	5.63	6.03	6.35	6.61	6.84	7.06	-	-
45	5.23	5.80	6.27	6.65	6.97	7.27	7.55	-	-
50	5.28	5.91	6.45	6.90	7.30	7.67	8.03	-	-
55	5.25	5.96	6.57	7.10	7.59	8.04	8.49	-	-
60	-	-	6.63	7.26	7.83	8.38	8.93	-	-
65	-	-	-	7.35	8.03	8.69	9.34	-	-
70	-	-	-	-	-	8.95	9.73	-	-

**Mass flow in kg/h**

35	94	128	167	213	266	327	397	-	-
40	88	122	161	206	258	319	387	-	-
45	82	115	153	198	250	309	377	-	-
50	74	107	145	190	241	299	366	-	-
55	66	99	137	180	230	288	353	-	-
60	-	-	127	170	219	276	340	-	-
65	-	-	-	158	207	262	326	-	-
70	-	-	-	-	-	248	310	-	-

**Coefficient of performance (C.O.P.)**

35	1.76	2.23	2.79	3.45	4.21	5.06	5.99	-	-
40	1.54	1.95	2.44	3.02	3.68	4.44	5.29	-	-
45	1.34	1.70	2.13	2.62	3.20	3.86	4.61	-	-
50	1.16	1.48	1.85	2.27	2.77	3.34	3.99	-	-
55	1.00	1.29	1.60	1.96	2.39	2.87	3.43	-	-
60	-	-	1.39	1.70	2.05	2.47	2.94	-	-
65	-	-	-	1.46	1.76	2.11	2.51	-	-
70	-	-	-	-	-	1.80	2.14	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	10 433	W
Power input	3 952	W
Current consumption	7.75	A
Mass flow	256	kg/h
C.O.P.	2.64	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 40 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	4 585	6 318	8 423	10 947	13 934	17 430	21 480	-	-
40	4 087	5 728	7 717	10 098	12 918	16 221	20 052	-	-
45	3 580	5 128	6 998	9 236	11 887	14 996	18 607	-	-
50	3 067	4 521	6 272	8 365	10 845	13 758	17 149	-	-
55	2 554	3 912	5 542	7 488	9 797	12 512	15 680	-	-
60	-	-	4 812	6 610	8 745	11 262	14 206	-	-
65	-	-	-	5 734	7 694	10 011	12 729	-	-
70	-	-	-	-	-	8 763	11 255	-	-

**Power input in W**

35	2 758	3 007	3 215	3 395	3 557	3 713	3 876	-	-
40	2 822	3 123	3 373	3 584	3 767	3 933	4 094	-	-
45	2 852	3 219	3 525	3 780	3 996	4 185	4 358	-	-
50	2 833	3 280	3 654	3 967	4 230	4 455	4 653	-	-
55	2 749	3 288	3 744	4 128	4 451	4 726	4 963	-	-
60	-	-	3 780	4 248	4 645	4 982	5 271	-	-
65	-	-	-	4 312	4 796	5 209	5 563	-	-
70	-	-	-	-	-	5 389	5 822	-	-

**Current consumption in A**

35	5.53	6.08	6.50	6.82	7.05	7.24	7.41	-	-
40	5.72	6.32	6.79	7.17	7.48	7.75	8.01	-	-
45	5.84	6.50	7.04	7.49	7.88	8.23	8.59	-	-
50	5.89	6.61	7.22	7.75	8.23	8.68	9.14	-	-
55	5.86	6.65	7.35	7.97	8.54	9.10	9.66	-	-
60	-	-	7.40	8.11	8.79	9.46	10.14	-	-
65	-	-	-	8.19	8.98	9.77	10.58	-	-
70	-	-	-	-	-	10.02	10.96	-	-

**Mass flow in kg/h**

35	111	150	196	250	311	382	463	-	-
40	105	143	189	242	303	373	452	-	-
45	97	135	181	233	293	362	440	-	-
50	88	127	171	223	282	350	428	-	-
55	78	117	161	212	271	338	413	-	-
60	-	-	149	200	258	323	398	-	-
65	-	-	-	186	243	308	381	-	-
70	-	-	-	-	-	291	363	-	-

**Coefficient of performance (C.O.P.)**

35	1.66	2.10	2.62	3.22	3.92	4.69	5.54	-	-
40	1.45	1.83	2.29	2.82	3.43	4.12	4.90	-	-
45	1.26	1.59	1.99	2.44	2.97	3.58	4.27	-	-
50	1.08	1.38	1.72	2.11	2.56	3.09	3.69	-	-
55	0.93	1.19	1.48	1.81	2.20	2.65	3.16	-	-
60	-	-	1.27	1.56	1.88	2.26	2.69	-	-
65	-	-	-	1.33	1.60	1.92	2.29	-	-
70	-	-	-	-	-	1.63	1.93	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	10 845	W
Power input	4 230	W
Current consumption	8.23	A
Mass flow	282	kg/h
C.O.P.	2.56	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 40 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	4 966	6 831	9 093	11 799	14 996	18 732	23 052	-	-
40	4 450	6 226	8 372	10 937	13 968	17 512	21 616	-	-
45	3 922	5 607	7 637	10 059	12 922	16 273	20 159	-	-
50	3 385	4 978	6 890	9 168	11 862	15 019	18 685	-	-
55	2 843	4 342	6 135	8 269	10 792	13 753	17 199	-	-
60	-	-	5 376	7 364	9 716	12 480	15 704	-	-
65	-	-	-	6 457	8 636	11 203	14 205	-	-
70	-	-	-	-	-	9 928	12 708	-	-

**Power input in W**

35	2 758	3 007	3 215	3 395	3 557	3 713	3 876	-	-
40	2 822	3 123	3 373	3 584	3 767	3 933	4 094	-	-
45	2 852	3 219	3 525	3 780	3 996	4 185	4 358	-	-
50	2 833	3 280	3 654	3 967	4 230	4 455	4 653	-	-
55	2 749	3 288	3 744	4 128	4 451	4 726	4 963	-	-
60	-	-	3 780	4 248	4 645	4 982	5 271	-	-
65	-	-	-	4 312	4 796	5 209	5 563	-	-
70	-	-	-	-	-	5 389	5 822	-	-

**Current consumption in A**

35	5.53	6.08	6.50	6.82	7.05	7.24	7.41	-	-
40	5.72	6.32	6.79	7.17	7.48	7.75	8.01	-	-
45	5.84	6.50	7.04	7.49	7.88	8.23	8.59	-	-
50	5.89	6.61	7.22	7.75	8.23	8.68	9.14	-	-
55	5.86	6.65	7.35	7.97	8.54	9.10	9.66	-	-
60	-	-	7.40	8.11	8.79	9.46	10.14	-	-
65	-	-	-	8.19	8.98	9.77	10.58	-	-
70	-	-	-	-	-	10.02	10.96	-	-

**Mass flow in kg/h**

35	111	150	195	248	310	380	460	-	-
40	104	143	188	240	301	371	450	-	-
45	96	135	180	232	292	360	438	-	-
50	88	126	170	222	281	349	425	-	-
55	78	116	160	211	269	336	411	-	-
60	-	-	149	199	256	322	396	-	-
65	-	-	-	185	242	306	379	-	-
70	-	-	-	-	-	289	361	-	-

**Coefficient of performance (C.O.P.)**

35	1.80	2.27	2.83	3.48	4.22	5.04	5.95	-	-
40	1.58	1.99	2.48	3.05	3.71	4.45	5.28	-	-
45	1.38	1.74	2.17	2.66	3.23	3.89	4.63	-	-
50	1.19	1.52	1.89	2.31	2.80	3.37	4.02	-	-
55	1.03	1.32	1.64	2.00	2.42	2.91	3.47	-	-
60	-	-	1.42	1.73	2.09	2.50	2.98	-	-
65	-	-	-	1.50	1.80	2.15	2.55	-	-
70	-	-	-	-	-	1.84	2.18	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	12 177	W
Power input	4 549	W
Current consumption	8.74	A
Mass flow	299	kg/h
C.O.P.	2.68	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 45 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	5 261	7 233	9 624	12 486	15 869	19 825	24 403	-	-
40	4 695	6 566	8 827	11 531	14 728	18 469	22 804	-	-
45	4 116	5 883	8 014	10 558	13 566	17 090	21 179	-	-
50	3 529	5 191	7 188	9 570	12 388	15 692	19 534	-	-
55	2 938	4 493	6 354	8 572	11 198	14 281	17 874	-	-
60	-	-	5 518	7 570	10 001	12 861	16 202	-	-
65	-	-	-	6 567	8 801	11 437	14 525	-	-
70	-	-	-	-	-	10 013	12 845	-	-

**Power input in W**

35	3 113	3 404	3 652	3 868	4 063	4 249	4 437	-	-
40	3 180	3 530	3 824	4 075	4 295	4 494	4 684	-	-
45	3 210	3 632	3 988	4 289	4 547	4 774	4 980	-	-
50	3 186	3 695	4 126	4 491	4 802	5 070	5 306	-	-
55	3 090	3 699	4 220	4 663	5 041	5 365	5 646	-	-
60	-	-	4 253	4 789	5 248	5 642	5 982	-	-
65	-	-	-	4 850	5 405	5 883	6 296	-	-
70	-	-	-	-	-	6 071	6 571	-	-

**Current consumption in A**

35	6.14	6.78	7.26	7.62	7.89	8.10	8.27	-	-
40	6.32	7.01	7.56	8.00	8.36	8.67	8.96	-	-
45	6.44	7.19	7.81	8.33	8.79	9.21	9.62	-	-
50	6.49	7.30	8.00	8.61	9.17	9.70	10.25	-	-
55	6.46	7.34	8.13	8.83	9.50	10.15	10.83	-	-
60	-	-	8.17	8.98	9.76	10.54	11.35	-	-
65	-	-	-	9.04	9.94	10.85	11.81	-	-
70	-	-	-	-	-	11.09	12.20	-	-

**Mass flow in kg/h**

35	128	172	224	285	355	435	526	-	-
40	120	164	216	276	345	424	514	-	-
45	111	155	207	266	335	413	501	-	-
50	101	145	196	255	323	400	487	-	-
55	90	134	185	243	309	385	471	-	-
60	-	-	171	229	295	369	454	-	-
65	-	-	-	213	278	352	435	-	-
70	-	-	-	-	-	332	414	-	-

**Coefficient of performance (C.O.P.)**

35	1.69	2.12	2.64	3.23	3.91	4.67	5.50	-	-
40	1.48	1.86	2.31	2.83	3.43	4.11	4.87	-	-
45	1.28	1.62	2.01	2.46	2.98	3.58	4.25	-	-
50	1.11	1.41	1.74	2.13	2.58	3.10	3.68	-	-
55	0.95	1.21	1.51	1.84	2.22	2.66	3.17	-	-
60	-	-	1.30	1.58	1.91	2.28	2.71	-	-
65	-	-	-	1.35	1.63	1.94	2.31	-	-
70	-	-	-	-	-	1.65	1.95	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	12 388	W
Power input	4 802	W
Current consumption	9.17	A
Mass flow	323	kg/h
C.O.P.	2.58	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 45 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	5 699	7 821	10 389	13 458	17 079	21 306	26 190	-	-
40	5 113	7 136	9 577	12 490	15 926	19 939	24 582	-	-
45	4 510	6 433	8 745	11 498	14 748	18 546	22 945	-	-
50	3 894	5 715	7 896	10 489	13 550	17 130	21 284	-	-
55	3 270	4 987	7 034	9 466	12 336	15 698	19 605	-	-
60	-	-	6 165	8 433	11 111	14 252	17 911	-	-
65	-	-	-	7 395	9 879	12 799	16 209	-	-
70	-	-	-	-	-	11 343	14 503	-	-

**Power input in W**

35	3 113	3 404	3 652	3 868	4 063	4 249	4 437	-	-
40	3 180	3 530	3 824	4 075	4 295	4 494	4 684	-	-
45	3 210	3 632	3 988	4 289	4 547	4 774	4 980	-	-
50	3 186	3 695	4 126	4 491	4 802	5 070	5 306	-	-
55	3 090	3 699	4 220	4 663	5 041	5 365	5 646	-	-
60	-	-	4 253	4 789	5 248	5 642	5 982	-	-
65	-	-	-	4 850	5 405	5 883	6 296	-	-
70	-	-	-	-	-	6 071	6 571	-	-

**Current consumption in A**

35	6.14	6.78	7.26	7.62	7.89	8.10	8.27	-	-
40	6.32	7.01	7.56	8.00	8.36	8.67	8.96	-	-
45	6.44	7.19	7.81	8.33	8.79	9.21	9.62	-	-
50	6.49	7.30	8.00	8.61	9.17	9.70	10.25	-	-
55	6.46	7.34	8.13	8.83	9.50	10.15	10.83	-	-
60	-	-	8.17	8.98	9.76	10.54	11.35	-	-
65	-	-	-	9.04	9.94	10.85	11.81	-	-
70	-	-	-	-	-	11.09	12.20	-	-

**Mass flow in kg/h**

35	127	171	223	283	353	432	523	-	-
40	119	163	215	275	343	422	511	-	-
45	111	155	206	265	333	410	499	-	-
50	101	145	195	254	321	397	484	-	-
55	90	133	184	241	308	383	469	-	-
60	-	-	170	228	293	367	451	-	-
65	-	-	-	212	277	350	433	-	-
70	-	-	-	-	-	330	412	-	-

**Coefficient of performance (C.O.P.)**

35	1.83	2.30	2.84	3.48	4.20	5.01	5.90	-	-
40	1.61	2.02	2.50	3.06	3.71	4.44	5.25	-	-
45	1.40	1.77	2.19	2.68	3.24	3.89	4.61	-	-
50	1.22	1.55	1.91	2.34	2.82	3.38	4.01	-	-
55	1.06	1.35	1.67	2.03	2.45	2.93	3.47	-	-
60	-	-	1.45	1.76	2.12	2.53	2.99	-	-
65	-	-	-	1.52	1.83	2.18	2.57	-	-
70	-	-	-	-	-	1.87	2.21	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	13 909	W
Power input	5 159	W
Current consumption	9.74	A
Mass flow	341	kg/h
C.O.P.	2.70	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	5 933	8 139	10 810	14 003	17 774	22 179	27 273	-	-
40	5 299	7 396	9 926	12 947	16 514	20 684	25 513	-	-
45	4 649	6 633	9 020	11 865	15 226	19 159	23 719	-	-
50	3 988	5 857	8 097	10 764	13 916	17 608	21 897	-	-
55	3 322	5 072	7 162	9 649	12 589	16 038	20 052	-	-
60	-	-	6 223	8 526	11 251	14 454	18 191	-	-
65	-	-	-	7 400	9 907	12 861	16 318	-	-
70	-	-	-	-	-	11 265	14 439	-	-

**Power input in W**

35	3 465	3 805	4 096	4 350	4 578	4 791	4 999	-	-
40	3 535	3 938	4 282	4 578	4 838	5 072	5 291	-	-
45	3 564	4 044	4 455	4 808	5 113	5 382	5 626	-	-
50	3 535	4 107	4 599	5 022	5 387	5 704	5 986	-	-
55	3 432	4 109	4 696	5 203	5 641	6 021	6 355	-	-
60	-	-	4 728	5 333	5 858	6 315	6 715	-	-
65	-	-	-	5 396	6 023	6 570	7 050	-	-
70	-	-	-	-	-	6 768	7 341	-	-

**Current consumption in A**

35	6.73	7.47	8.02	8.43	8.73	8.95	9.14	-	-
40	6.91	7.70	8.33	8.83	9.24	9.59	9.91	-	-
45	7.02	7.88	8.58	9.18	9.70	10.18	10.65	-	-
50	7.07	7.99	8.78	9.48	10.12	10.73	11.35	-	-
55	7.03	8.03	8.91	9.71	10.46	11.21	11.98	-	-
60	-	-	8.94	9.85	10.73	11.62	12.55	-	-
65	-	-	-	9.90	10.91	11.94	13.03	-	-
70	-	-	-	-	-	12.17	13.42	-	-

**Mass flow in kg/h**

35	144	194	252	319	397	486	588	-	-
40	136	185	243	310	387	475	575	-	-
45	126	175	233	299	375	463	561	-	-
50	115	164	221	287	362	448	546	-	-
55	102	151	208	273	348	433	529	-	-
60	-	-	193	258	331	415	510	-	-
65	-	-	-	240	313	395	489	-	-
70	-	-	-	-	-	374	465	-	-

**Coefficient of performance (C.O.P.)**

35	1.71	2.14	2.64	3.22	3.88	4.63	5.46	-	-
40	1.50	1.88	2.32	2.83	3.41	4.08	4.82	-	-
45	1.30	1.64	2.02	2.47	2.98	3.56	4.22	-	-
50	1.13	1.43	1.76	2.14	2.58	3.09	3.66	-	-
55	0.97	1.23	1.53	1.85	2.23	2.66	3.16	-	-
60	-	-	1.32	1.60	1.92	2.29	2.71	-	-
65	-	-	-	1.37	1.64	1.96	2.31	-	-
70	-	-	-	-	-	1.66	1.97	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	13 916	W
Power input	5 387	W
Current consumption	10.12	A
Mass flow	362	kg/h
C.O.P.	2.58	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 50 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	6 426	8 800	11 670	15 093	19 129	23 835	29 270	-	-
40	5 771	8 039	10 770	14 023	17 857	22 331	27 502	-	-
45	5 095	7 253	9 843	12 923	16 553	20 791	25 697	-	-
50	4 402	6 448	8 894	11 798	15 221	19 222	23 859	-	-
55	3 697	5 630	7 929	10 655	13 869	17 629	21 994	-	-
60	-	-	6 952	9 498	12 500	16 017	20 109	-	-
65	-	-	-	8 332	11 120	14 393	18 210	-	-
70	-	-	-	-	-	12 761	16 303	-	-

**Power input in W**

35	3 465	3 805	4 096	4 350	4 578	4 791	4 999	-	-
40	3 535	3 938	4 282	4 578	4 838	5 072	5 291	-	-
45	3 564	4 044	4 455	4 808	5 113	5 382	5 626	-	-
50	3 535	4 107	4 599	5 022	5 387	5 704	5 986	-	-
55	3 432	4 109	4 696	5 203	5 641	6 021	6 355	-	-
60	-	-	4 728	5 333	5 858	6 315	6 715	-	-
65	-	-	-	5 396	6 023	6 570	7 050	-	-
70	-	-	-	-	-	6 768	7 341	-	-

**Current consumption in A**

35	6.73	7.47	8.02	8.43	8.73	8.95	9.14	-	-
40	6.91	7.70	8.33	8.83	9.24	9.59	9.91	-	-
45	7.02	7.88	8.58	9.18	9.70	10.18	10.65	-	-
50	7.07	7.99	8.78	9.48	10.12	10.73	11.35	-	-
55	7.03	8.03	8.91	9.71	10.46	11.21	11.98	-	-
60	-	-	8.94	9.85	10.73	11.62	12.55	-	-
65	-	-	-	9.90	10.91	11.94	13.03	-	-
70	-	-	-	-	-	12.17	13.42	-	-

**Mass flow in kg/h**

35	143	193	250	318	395	484	585	-	-
40	135	184	242	308	385	473	572	-	-
45	125	174	232	298	373	460	558	-	-
50	114	163	220	286	361	446	543	-	-
55	101	150	207	272	346	430	526	-	-
60	-	-	192	256	330	413	507	-	-
65	-	-	-	239	311	393	486	-	-
70	-	-	-	-	-	372	463	-	-

**Coefficient of performance (C.O.P.)**

35	1.85	2.31	2.85	3.47	4.18	4.98	5.85	-	-
40	1.63	2.04	2.52	3.06	3.69	4.40	5.20	-	-
45	1.43	1.79	2.21	2.69	3.24	3.86	4.57	-	-
50	1.25	1.57	1.93	2.35	2.83	3.37	3.99	-	-
55	1.08	1.37	1.69	2.05	2.46	2.93	3.46	-	-
60	-	-	1.47	1.78	2.13	2.54	2.99	-	-
65	-	-	-	1.54	1.85	2.19	2.58	-	-
70	-	-	-	-	-	1.89	2.22	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	15 628	W
Power input	5 782	W
Current consumption	10.75	A
Mass flow	384	kg/h
C.O.P.	2.70	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 55 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	6 599	9 036	11 982	15 498	19 648	24 491	30 090	-	-
40	5 899	8 218	11 013	14 345	18 276	22 867	28 181	-	-
45	5 180	7 377	10 017	13 159	16 868	21 203	26 227	-	-
50	4 447	6 519	8 999	11 949	15 431	19 506	24 237	-	-
55	3 708	5 650	7 966	10 719	13 971	17 782	22 215	-	-
60	-	-	6 926	9 478	12 495	16 039	20 170	-	-
65	-	-	-	8 232	11 011	14 282	18 108	-	-
70	-	-	-	-	-	12 519	16 036	-	-

**Power input in W**

35	3 814	4 207	4 547	4 842	5 103	5 340	5 563	-	-
40	3 885	4 347	4 746	5 093	5 396	5 667	5 914	-	-
45	3 912	4 455	4 927	5 337	5 695	6 011	6 296	-	-
50	3 881	4 517	5 074	5 559	5 985	6 359	6 692	-	-
55	3 776	4 519	5 172	5 746	6 250	6 694	7 089	-	-
60	-	-	5 206	5 880	6 476	7 003	7 471	-	-
65	-	-	-	5 949	6 648	7 270	7 824	-	-
70	-	-	-	-	-	7 480	8 133	-	-

**Current consumption in A**

35	7.33	8.16	8.78	9.24	9.57	9.81	10.00	-	-
40	7.49	8.38	9.10	9.67	10.13	10.51	10.86	-	-
45	7.59	8.56	9.36	10.04	10.63	11.16	11.68	-	-
50	7.63	8.67	9.56	10.35	11.07	11.76	12.45	-	-
55	7.59	8.70	9.69	10.59	11.44	12.28	13.14	-	-
60	-	-	9.72	10.73	11.72	12.71	13.74	-	-
65	-	-	-	10.77	11.89	13.04	14.25	-	-
70	-	-	-	-	-	13.26	14.64	-	-

**Mass flow in kg/h**

35	160	215	279	353	439	537	648	-	-
40	151	206	269	343	428	525	636	-	-
45	140	195	258	332	416	512	621	-	-
50	128	183	246	319	402	497	604	-	-
55	114	168	231	304	386	480	586	-	-
60	-	-	215	287	368	461	565	-	-
65	-	-	-	267	348	439	542	-	-
70	-	-	-	-	-	415	517	-	-

**Coefficient of performance (C.O.P.)**

35	1.73	2.15	2.64	3.20	3.85	4.59	5.41	-	-
40	1.52	1.89	2.32	2.82	3.39	4.04	4.76	-	-
45	1.32	1.66	2.03	2.47	2.96	3.53	4.17	-	-
50	1.15	1.44	1.77	2.15	2.58	3.07	3.62	-	-
55	0.98	1.25	1.54	1.87	2.24	2.66	3.13	-	-
60	-	-	1.33	1.61	1.93	2.29	2.70	-	-
65	-	-	-	1.38	1.66	1.96	2.31	-	-
70	-	-	-	-	-	1.67	1.97	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	15 431	W
Power input	5 985	W
Current consumption	11.07	A
Mass flow	402	kg/h
C.O.P.	2.58	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 55 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	7 147	9 770	12 934	16 705	21 145	26 320	32 293	-	-
40	6 424	8 933	11 949	15 537	19 762	24 687	30 378	-	-
45	5 676	8 067	10 930	14 332	18 337	23 009	28 414	-	-
50	4 908	7 177	9 885	13 097	16 878	21 293	26 408	-	-
55	4 127	6 271	8 818	11 837	15 391	19 546	24 367	-	-
60	-	-	7 738	10 559	13 882	17 773	22 298	-	-
65	-	-	-	9 269	12 359	15 983	20 208	-	-
70	-	-	-	-	-	14 182	18 106	-	-

**Power input in W**

35	3 814	4 207	4 547	4 842	5 103	5 340	5 563	-	-
40	3 885	4 347	4 746	5 093	5 396	5 667	5 914	-	-
45	3 912	4 455	4 927	5 337	5 695	6 011	6 296	-	-
50	3 881	4 517	5 074	5 559	5 985	6 359	6 692	-	-
55	3 776	4 519	5 172	5 746	6 250	6 694	7 089	-	-
60	-	-	5 206	5 880	6 476	7 003	7 471	-	-
65	-	-	-	5 949	6 648	7 270	7 824	-	-
70	-	-	-	-	-	7 480	8 133	-	-

**Current consumption in A**

35	7.33	8.16	8.78	9.24	9.57	9.81	10.00	-	-
40	7.49	8.38	9.10	9.67	10.13	10.51	10.86	-	-
45	7.59	8.56	9.36	10.04	10.63	11.16	11.68	-	-
50	7.63	8.67	9.56	10.35	11.07	11.76	12.45	-	-
55	7.59	8.70	9.69	10.59	11.44	12.28	13.14	-	-
60	-	-	9.72	10.73	11.72	12.71	13.74	-	-
65	-	-	-	10.77	11.89	13.04	14.25	-	-
70	-	-	-	-	-	13.26	14.64	-	-

**Mass flow in kg/h**

35	160	214	278	351	437	534	645	-	-
40	150	205	268	342	426	522	632	-	-
45	139	194	257	330	414	509	617	-	-
50	127	182	245	317	400	494	601	-	-
55	113	168	230	302	384	477	583	-	-
60	-	-	214	285	366	458	562	-	-
65	-	-	-	266	346	437	539	-	-
70	-	-	-	-	-	413	514	-	-

**Coefficient of performance (C.O.P.)**

35	1.87	2.32	2.84	3.45	4.14	4.93	5.80	-	-
40	1.65	2.06	2.52	3.05	3.66	4.36	5.14	-	-
45	1.45	1.81	2.22	2.69	3.22	3.83	4.51	-	-
50	1.26	1.59	1.95	2.36	2.82	3.35	3.95	-	-
55	1.09	1.39	1.71	2.06	2.46	2.92	3.44	-	-
60	-	-	1.49	1.80	2.14	2.54	2.98	-	-
65	-	-	-	1.56	1.86	2.20	2.58	-	-
70	-	-	-	-	-	1.90	2.23	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	17 334	W
Power input	6 418	W
Current consumption	11.76	A
Mass flow	426	kg/h
C.O.P.	2.70	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	7 259	9 923	13 138	16 971	21 490	26 762	32 853	-	-
40	6 495	9 034	12 088	15 725	20 013	25 017	30 807	-	-
45	5 707	8 115	11 004	14 440	18 490	23 223	28 704	-	-
50	4 905	7 177	9 894	13 123	16 931	21 385	26 553	-	-
55	4 095	6 226	8 766	11 782	15 343	19 514	24 363	-	-
60	-	-	7 628	10 427	13 734	17 616	22 141	-	-
65	-	-	-	9 064	12 113	15 701	19 896	-	-
70	-	-	-	-	-	13 776	17 636	-	-

**Power input in W**

35	4 160	4 612	5 004	5 343	5 638	5 897	6 127	-	-
40	4 231	4 757	5 217	5 619	5 970	6 279	6 554	-	-
45	4 255	4 865	5 403	5 876	6 293	6 661	6 990	-	-
50	4 222	4 925	5 550	6 104	6 596	7 033	7 425	-	-
55	4 121	4 927	5 648	6 292	6 869	7 385	7 849	-	-
60	-	-	5 686	6 431	7 101	7 705	8 251	-	-
65	-	-	-	6 508	7 281	7 983	8 620	-	-
70	-	-	-	-	-	8 208	8 946	-	-

**Current consumption in A**

35	7.91	8.84	9.54	10.06	10.42	10.67	10.85	-	-
40	8.06	9.07	9.87	10.51	11.02	11.44	11.81	-	-
45	8.16	9.24	10.14	10.90	11.56	12.15	12.71	-	-
50	8.18	9.34	10.35	11.23	12.03	12.79	13.54	-	-
55	8.13	9.37	10.47	11.47	12.42	13.35	14.29	-	-
60	-	-	10.50	11.62	12.71	13.80	14.93	-	-
65	-	-	-	11.66	12.89	14.14	15.46	-	-
70	-	-	-	-	-	14.36	15.86	-	-

**Mass flow in kg/h**

35	176	236	306	387	480	587	708	-	-
40	166	226	296	376	469	575	695	-	-
45	154	214	284	364	456	561	679	-	-
50	141	201	270	350	441	545	662	-	-
55	126	186	255	334	424	526	642	-	-
60	-	-	237	315	404	506	620	-	-
65	-	-	-	295	383	483	596	-	-
70	-	-	-	-	-	457	568	-	-

**Coefficient of performance (C.O.P.)**

35	1.75	2.15	2.63	3.18	3.81	4.54	5.36	-	-
40	1.54	1.90	2.32	2.80	3.35	3.98	4.70	-	-
45	1.34	1.67	2.04	2.46	2.94	3.49	4.11	-	-
50	1.16	1.46	1.78	2.15	2.57	3.04	3.58	-	-
55	0.99	1.26	1.55	1.87	2.23	2.64	3.10	-	-
60	-	-	1.34	1.62	1.93	2.29	2.68	-	-
65	-	-	-	1.39	1.66	1.97	2.31	-	-
70	-	-	-	-	-	1.68	1.97	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	16 931	W
Power input	6 596	W
Current consumption	12.03	A
Mass flow	441	kg/h
C.O.P.	2.57	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	7 863	10 729	14 183	18 292	23 128	28 761	35 258	-	-
40	7 073	9 819	13 115	17 032	21 640	27 009	33 208	-	-
45	6 254	8 874	12 008	15 726	20 101	25 201	31 097	-	-
50	5 413	7 901	10 868	14 383	18 519	23 345	28 932	-	-
55	4 558	6 910	9 703	13 010	16 902	21 449	26 722	-	-
60	-	-	8 522	11 616	15 258	19 521	24 476	-	-
65	-	-	-	10 207	13 596	17 571	22 203	-	-
70	-	-	-	-	-	15 606	19 913	-	-

**Power input in W**

35	4 160	4 612	5 004	5 343	5 638	5 897	6 127	-	-
40	4 231	4 757	5 217	5 619	5 970	6 279	6 554	-	-
45	4 255	4 865	5 403	5 876	6 293	6 661	6 990	-	-
50	4 222	4 925	5 550	6 104	6 596	7 033	7 425	-	-
55	4 121	4 927	5 648	6 292	6 869	7 385	7 849	-	-
60	-	-	5 686	6 431	7 101	7 705	8 251	-	-
65	-	-	-	6 508	7 281	7 983	8 620	-	-
70	-	-	-	-	-	8 208	8 946	-	-

**Current consumption in A**

35	7.91	8.84	9.54	10.06	10.42	10.67	10.85	-	-
40	8.06	9.07	9.87	10.51	11.02	11.44	11.81	-	-
45	8.16	9.24	10.14	10.90	11.56	12.15	12.71	-	-
50	8.18	9.34	10.35	11.23	12.03	12.79	13.54	-	-
55	8.13	9.37	10.47	11.47	12.42	13.35	14.29	-	-
60	-	-	10.50	11.62	12.71	13.80	14.93	-	-
65	-	-	-	11.66	12.89	14.14	15.46	-	-
70	-	-	-	-	-	14.36	15.86	-	-

**Mass flow in kg/h**

35	175	235	304	385	478	584	704	-	-
40	165	225	294	374	466	572	691	-	-
45	154	213	282	362	454	558	676	-	-
50	140	200	269	348	439	542	658	-	-
55	125	185	253	332	422	524	639	-	-
60	-	-	236	314	402	503	617	-	-
65	-	-	-	293	381	480	592	-	-
70	-	-	-	-	-	455	565	-	-

**Coefficient of performance (C.O.P.)**

35	1.89	2.33	2.83	3.42	4.10	4.88	5.75	-	-
40	1.67	2.06	2.51	3.03	3.62	4.30	5.07	-	-
45	1.47	1.82	2.22	2.68	3.19	3.78	4.45	-	-
50	1.28	1.60	1.96	2.36	2.81	3.32	3.90	-	-
55	1.11	1.40	1.72	2.07	2.46	2.90	3.40	-	-
60	-	-	1.50	1.81	2.15	2.53	2.97	-	-
65	-	-	-	1.57	1.87	2.20	2.58	-	-
70	-	-	-	-	-	1.90	2.23	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	19 028	W
Power input	7 067	W
Current consumption	12.78	A
Mass flow	467	kg/h
C.O.P.	2.69	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 65 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	7 915	10 801	14 279	18 422	23 302	28 991	35 563	-	-
40	7 087	9 841	13 151	17 088	21 726	27 135	33 391	-	-
45	6 232	8 848	11 982	15 706	20 094	25 217	31 148	-	-
50	5 361	7 831	10 782	14 286	18 417	23 246	28 847	-	-
55	4 483	6 800	9 561	12 838	16 704	21 233	26 495	-	-
60	-	-	8 328	11 371	14 966	19 186	24 103	-	-
65	-	-	-	9 896	13 213	17 117	21 682	-	-
70	-	-	-	-	-	15 035	19 240	-	-

**Power input in W**

35	4 503	5 020	5 468	5 854	6 183	6 461	6 693	-	-
40	4 573	5 169	5 695	6 156	6 559	6 908	7 210	-	-
45	4 593	5 274	5 883	6 425	6 906	7 331	7 708	-	-
50	4 560	5 331	6 027	6 655	7 220	7 728	8 184	-	-
55	4 468	5 334	6 124	6 843	7 497	8 092	8 634	-	-
60	-	-	6 169	6 984	7 733	8 420	9 053	-	-
65	-	-	-	7 075	7 923	8 708	9 436	-	-
70	-	-	-	-	-	8 952	9 781	-	-

**Current consumption in A**

35	8.50	9.53	10.31	10.87	11.27	11.54	11.71	-	-
40	8.63	9.75	10.64	11.35	11.92	12.37	12.76	-	-
45	8.70	9.91	10.92	11.77	12.50	13.14	13.75	-	-
50	8.72	10.01	11.13	12.11	13.00	13.83	14.64	-	-
55	8.66	10.03	11.25	12.37	13.41	14.42	15.43	-	-
60	-	-	11.28	12.52	13.71	14.90	16.11	-	-
65	-	-	-	12.55	13.89	15.25	16.66	-	-
70	-	-	-	-	-	15.47	17.08	-	-

**Mass flow in kg/h**

35	192	257	333	420	521	636	766	-	-
40	181	246	322	409	509	623	753	-	-
45	169	234	309	396	495	609	737	-	-
50	154	219	294	381	480	592	719	-	-
55	138	203	278	364	461	573	699	-	-
60	-	-	259	344	441	551	675	-	-
65	-	-	-	322	418	526	649	-	-
70	-	-	-	-	-	499	620	-	-

**Coefficient of performance (C.O.P.)**

35	1.76	2.15	2.61	3.15	3.77	4.49	5.31	-	-
40	1.55	1.90	2.31	2.78	3.31	3.93	4.63	-	-
45	1.36	1.68	2.04	2.44	2.91	3.44	4.04	-	-
50	1.18	1.47	1.79	2.15	2.55	3.01	3.52	-	-
55	1.00	1.27	1.56	1.88	2.23	2.62	3.07	-	-
60	-	-	1.35	1.63	1.94	2.28	2.66	-	-
65	-	-	-	1.40	1.67	1.97	2.30	-	-
70	-	-	-	-	-	1.68	1.97	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	18 417	W
Power input	7 220	W
Current consumption	13.00	A
Mass flow	480	kg/h
C.O.P.	2.55	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 65 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	8 573	11 679	15 415	19 856	25 078	31 157	38 166	-	-
40	7 717	10 697	14 268	18 508	23 492	29 296	35 994	-	-
45	6 829	9 675	13 075	17 106	21 844	27 365	33 745	-	-
50	5 917	8 622	11 843	15 659	20 144	25 376	31 431	-	-
55	4 990	7 547	10 583	14 176	18 402	23 338	29 061	-	-
60	-	-	9 305	12 668	16 628	21 261	26 646	-	-
65	-	-	-	11 143	14 831	19 156	24 196	-	-
70	-	-	-	-	-	17 032	21 723	-	-

**Power input in W**

35	4 503	5 020	5 468	5 854	6 183	6 461	6 693	-	-
40	4 573	5 169	5 695	6 156	6 559	6 908	7 210	-	-
45	4 593	5 274	5 883	6 425	6 906	7 331	7 708	-	-
50	4 560	5 331	6 027	6 655	7 220	7 728	8 184	-	-
55	4 468	5 334	6 124	6 843	7 497	8 092	8 634	-	-
60	-	-	6 169	6 984	7 733	8 420	9 053	-	-
65	-	-	-	7 075	7 923	8 708	9 436	-	-
70	-	-	-	-	-	8 952	9 781	-	-

**Current consumption in A**

35	8.50	9.53	10.31	10.87	11.27	11.54	11.71	-	-
40	8.63	9.75	10.64	11.35	11.92	12.37	12.76	-	-
45	8.70	9.91	10.92	11.77	12.50	13.14	13.75	-	-
50	8.72	10.01	11.13	12.11	13.00	13.83	14.64	-	-
55	8.66	10.03	11.25	12.37	13.41	14.42	15.43	-	-
60	-	-	11.28	12.52	13.71	14.90	16.11	-	-
65	-	-	-	12.55	13.89	15.25	16.66	-	-
70	-	-	-	-	-	15.47	17.08	-	-

**Mass flow in kg/h**

35	191	256	331	418	518	632	762	-	-
40	180	245	320	407	506	620	749	-	-
45	168	233	308	394	493	606	733	-	-
50	153	218	293	379	477	589	715	-	-
55	137	202	276	362	459	570	695	-	-
60	-	-	257	342	438	548	672	-	-
65	-	-	-	320	415	524	646	-	-
70	-	-	-	-	-	496	617	-	-

**Coefficient of performance (C.O.P.)**

35	1.90	2.33	2.82	3.39	4.06	4.82	5.70	-	-
40	1.69	2.07	2.51	3.01	3.58	4.24	4.99	-	-
45	1.49	1.83	2.22	2.66	3.16	3.73	4.38	-	-
50	1.30	1.62	1.96	2.35	2.79	3.28	3.84	-	-
55	1.12	1.41	1.73	2.07	2.45	2.88	3.37	-	-
60	-	-	1.51	1.81	2.15	2.53	2.94	-	-
65	-	-	-	1.58	1.87	2.20	2.56	-	-
70	-	-	-	-	-	1.90	2.22	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	20 708	W
Power input	7 730	W
Current consumption	13.80	A
Mass flow	508	kg/h
C.O.P.	2.68	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 70 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	8 565	11 670	15 406	19 851	25 083	31 180	38 219	-	-
40	7 674	10 642	14 202	18 434	23 414	29 221	35 933	-	-
45	6 754	9 575	12 950	16 959	21 679	27 187	33 561	-	-
50	5 816	8 481	11 663	15 440	19 889	25 089	31 117	-	-
55	4 873	7 373	10 351	13 887	18 057	22 939	28 612	-	-
60	-	-	9 027	12 312	16 193	20 749	26 057	-	-
65	-	-	-	10 728	14 311	18 531	23 465	-	-
70	-	-	-	-	-	16 296	20 846	-	-

**Power input in W**

35	4 842	5 430	5 939	6 374	6 737	7 031	7 260	-	-
40	4 911	5 582	6 180	6 705	7 162	7 553	7 882	-	-
45	4 926	5 683	6 367	6 984	7 534	8 022	8 451	-	-
50	4 893	5 734	6 506	7 213	7 857	8 442	8 970	-	-
55	4 816	5 741	6 600	7 397	8 135	8 816	9 445	-	-
60	-	-	6 654	7 541	8 372	9 150	9 878	-	-
65	-	-	-	7 648	8 572	9 446	10 274	-	-
70	-	-	-	-	-	9 710	10 637	-	-

**Current consumption in A**

35	9.07	10.21	11.07	11.69	12.12	12.40	12.56	-	-
40	9.18	10.43	11.42	12.21	12.82	13.31	13.71	-	-
45	9.24	10.59	11.71	12.65	13.44	14.14	14.77	-	-
50	9.24	10.68	11.92	13.00	13.98	14.87	15.73	-	-
55	9.16	10.69	12.04	13.27	14.40	15.49	16.57	-	-
60	-	-	12.06	13.42	14.72	15.99	17.29	-	-
65	-	-	-	13.46	14.91	16.36	17.86	-	-
70	-	-	-	-	-	16.59	18.28	-	-

**Mass flow in kg/h**

35	208	278	359	453	560	684	823	-	-
40	196	266	347	441	549	671	810	-	-
45	183	253	334	428	535	656	794	-	-
50	167	237	319	412	518	639	776	-	-
55	149	220	301	393	499	619	755	-	-
60	-	-	280	372	477	596	730	-	-
65	-	-	-	349	452	570	703	-	-
70	-	-	-	-	-	541	672	-	-

**Coefficient of performance (C.O.P.)**

35	1.77	2.15	2.59	3.11	3.72	4.43	5.26	-	-
40	1.56	1.91	2.30	2.75	3.27	3.87	4.56	-	-
45	1.37	1.68	2.03	2.43	2.88	3.39	3.97	-	-
50	1.19	1.48	1.79	2.14	2.53	2.97	3.47	-	-
55	1.01	1.28	1.57	1.88	2.22	2.60	3.03	-	-
60	-	-	1.36	1.63	1.93	2.27	2.64	-	-
65	-	-	-	1.40	1.67	1.96	2.28	-	-
70	-	-	-	-	-	1.68	1.96	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	19 889	W
Power input	7 857	W
Current consumption	13.98	A
Mass flow	518	kg/h
C.O.P.	2.53	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 70 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	9 277	12 619	16 631	21 396	26 995	33 508	41 017	-	-
40	8 357	11 567	15 409	19 965	25 318	31 547	38 734	-	-
45	7 401	10 469	14 132	18 470	23 567	29 503	36 359	-	-
50	6 419	9 337	12 811	16 923	21 754	27 388	33 905	-	-
55	5 423	8 183	11 459	15 334	19 892	25 214	31 382	-	-
60	-	-	10 086	13 716	17 991	22 993	28 805	-	-
65	-	-	-	12 080	16 064	20 738	26 186	-	-
70	-	-	-	-	-	18 461	23 538	-	-

**Power input in W**

35	4 842	5 430	5 939	6 374	6 737	7 031	7 260	-	-
40	4 911	5 582	6 180	6 705	7 162	7 553	7 882	-	-
45	4 926	5 683	6 367	6 984	7 534	8 022	8 451	-	-
50	4 893	5 734	6 506	7 213	7 857	8 442	8 970	-	-
55	4 816	5 741	6 600	7 397	8 135	8 816	9 445	-	-
60	-	-	6 654	7 541	8 372	9 150	9 878	-	-
65	-	-	-	7 648	8 572	9 446	10 274	-	-
70	-	-	-	-	-	9 710	10 637	-	-

**Current consumption in A**

35	9.07	10.21	11.07	11.69	12.12	12.40	12.56	-	-
40	9.18	10.43	11.42	12.21	12.82	13.31	13.71	-	-
45	9.24	10.59	11.71	12.65	13.44	14.14	14.77	-	-
50	9.24	10.68	11.92	13.00	13.98	14.87	15.73	-	-
55	9.16	10.69	12.04	13.27	14.40	15.49	16.57	-	-
60	-	-	12.06	13.42	14.72	15.99	17.29	-	-
65	-	-	-	13.46	14.91	16.36	17.86	-	-
70	-	-	-	-	-	16.59	18.28	-	-

**Mass flow in kg/h**

35	207	276	357	450	557	680	819	-	-
40	195	265	346	439	546	668	806	-	-
45	182	252	332	425	532	653	790	-	-
50	166	236	317	409	515	636	772	-	-
55	149	219	299	391	496	615	750	-	-
60	-	-	279	370	474	593	726	-	-
65	-	-	-	347	450	567	699	-	-
70	-	-	-	-	-	538	668	-	-

**Coefficient of performance (C.O.P.)**

35	1.92	2.32	2.80	3.36	4.01	4.77	5.65	-	-
40	1.70	2.07	2.49	2.98	3.53	4.18	4.91	-	-
45	1.50	1.84	2.22	2.64	3.13	3.68	4.30	-	-
50	1.31	1.63	1.97	2.35	2.77	3.24	3.78	-	-
55	1.13	1.43	1.74	2.07	2.45	2.86	3.32	-	-
60	-	-	1.52	1.82	2.15	2.51	2.92	-	-
65	-	-	-	1.58	1.87	2.20	2.55	-	-
70	-	-	-	-	-	1.90	2.21	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	22 376	W
Power input	8 405	W
Current consumption	14.83	A
Mass flow	549	kg/h
C.O.P.	2.66	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 75 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	9 211	12 530	16 518	21 258	26 833	33 327	40 822	-	-
40	8 257	11 434	15 241	19 761	25 078	31 274	38 433	-	-
45	7 272	10 295	13 910	18 198	23 245	29 132	35 942	-	-
50	6 270	9 127	12 537	16 583	21 347	26 913	33 365	-	-
55	5 264	7 944	11 138	14 928	19 399	24 633	30 713	-	-
60	-	-	9 725	13 249	17 415	22 304	28 002	-	-
65	-	-	-	11 559	15 408	19 942	25 245	-	-
70	-	-	-	-	-	17 560	22 457	-	-

**Power input in W**

35	5 179	5 842	6 417	6 904	7 301	7 609	7 827	-	-
40	5 244	5 997	6 671	7 266	7 781	8 216	8 571	-	-
45	5 254	6 090	6 856	7 552	8 178	8 734	9 218	-	-
50	5 223	6 135	6 986	7 777	8 507	9 176	9 783	-	-
55	5 166	6 146	7 076	7 955	8 782	9 558	10 281	-	-
60	-	-	7 141	8 101	9 018	9 894	10 726	-	-
65	-	-	-	8 228	9 230	10 198	11 132	-	-
70	-	-	-	-	-	10 485	11 515	-	-

**Current consumption in A**

35	9.64	10.89	11.83	12.52	12.98	13.27	13.41	-	-
40	9.73	11.10	12.20	13.06	13.74	14.26	14.67	-	-
45	9.77	11.25	12.49	13.53	14.40	15.14	15.80	-	-
50	9.74	11.33	12.71	13.90	14.96	15.92	16.82	-	-
55	9.65	11.33	12.83	14.17	15.41	16.57	17.71	-	-
60	-	-	12.85	14.34	15.74	17.10	18.45	-	-
65	-	-	-	14.38	15.94	17.48	19.05	-	-
70	-	-	-	-	-	17.72	19.49	-	-

**Mass flow in kg/h**

35	224	298	385	485	599	731	879	-	-
40	211	286	373	473	588	718	867	-	-
45	197	272	359	459	573	703	851	-	-
50	180	256	342	442	556	685	832	-	-
55	161	237	323	423	536	665	810	-	-
60	-	-	302	401	513	640	785	-	-
65	-	-	-	376	487	613	756	-	-
70	-	-	-	-	-	583	724	-	-

**Coefficient of performance (C.O.P.)**

35	1.78	2.14	2.57	3.08	3.68	4.38	5.22	-	-
40	1.57	1.91	2.28	2.72	3.22	3.81	4.48	-	-
45	1.38	1.69	2.03	2.41	2.84	3.34	3.90	-	-
50	1.20	1.49	1.79	2.13	2.51	2.93	3.41	-	-
55	1.02	1.29	1.57	1.88	2.21	2.58	2.99	-	-
60	-	-	1.36	1.64	1.93	2.25	2.61	-	-
65	-	-	-	1.40	1.67	1.96	2.27	-	-
70	-	-	-	-	-	1.67	1.95	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	21 347	W
Power input	8 507	W
Current consumption	14.96	A
Mass flow	556	kg/h
C.O.P.	2.51	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 75 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	9 976	13 548	17 831	22 912	28 878	35 816	43 810	-	-
40	8 992	12 428	16 536	21 404	27 117	33 763	41 429	-	-
45	7 969	11 257	15 178	19 820	25 269	31 613	38 939	-	-
50	6 920	10 049	13 771	18 175	23 349	29 379	36 353	-	-
55	5 858	8 817	12 329	16 484	21 370	27 076	33 687	-	-
60	-	-	10 865	14 760	19 348	24 717	30 955	-	-
65	-	-	-	13 016	17 295	22 317	28 173	-	-
70	-	-	-	-	-	19 893	25 356	-	-

**Power input in W**

35	5 179	5 842	6 417	6 904	7 301	7 609	7 827	-	-
40	5 244	5 997	6 671	7 266	7 781	8 216	8 571	-	-
45	5 254	6 090	6 856	7 552	8 178	8 734	9 218	-	-
50	5 223	6 135	6 986	7 777	8 507	9 176	9 783	-	-
55	5 166	6 146	7 076	7 955	8 782	9 558	10 281	-	-
60	-	-	7 141	8 101	9 018	9 894	10 726	-	-
65	-	-	-	8 228	9 230	10 198	11 132	-	-
70	-	-	-	-	-	10 485	11 515	-	-

**Current consumption in A**

35	9.64	10.89	11.83	12.52	12.98	13.27	13.41	-	-
40	9.73	11.10	12.20	13.06	13.74	14.26	14.67	-	-
45	9.77	11.25	12.49	13.53	14.40	15.14	15.80	-	-
50	9.74	11.33	12.71	13.90	14.96	15.92	16.82	-	-
55	9.65	11.33	12.83	14.17	15.41	16.57	17.71	-	-
60	-	-	12.85	14.34	15.74	17.10	18.45	-	-
65	-	-	-	14.38	15.94	17.48	19.05	-	-
70	-	-	-	-	-	17.72	19.49	-	-

**Mass flow in kg/h**

35	223	297	383	482	596	727	875	-	-
40	210	285	371	470	585	715	862	-	-
45	196	271	357	456	570	700	846	-	-
50	179	254	341	440	553	682	827	-	-
55	161	236	322	421	533	661	805	-	-
60	-	-	300	398	510	637	780	-	-
65	-	-	-	374	484	610	752	-	-
70	-	-	-	-	-	580	720	-	-

**Coefficient of performance (C.O.P.)**

35	1.93	2.32	2.78	3.32	3.96	4.71	5.60	-	-
40	1.71	2.07	2.48	2.95	3.48	4.11	4.83	-	-
45	1.52	1.85	2.21	2.62	3.09	3.62	4.22	-	-
50	1.32	1.64	1.97	2.34	2.74	3.20	3.72	-	-
55	1.13	1.43	1.74	2.07	2.43	2.83	3.28	-	-
60	-	-	1.52	1.82	2.15	2.50	2.89	-	-
65	-	-	-	1.58	1.87	2.19	2.53	-	-
70	-	-	-	-	-	1.90	2.20	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	24 031	W
Power input	9 094	W
Current consumption	15.87	A
Mass flow	590	kg/h
C.O.P.	2.64	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 80 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	9 851	13 380	17 615	22 643	28 552	35 432	43 371	-	-
40	8 837	12 220	16 269	21 072	26 718	33 295	40 891	-	-
45	7 788	11 011	14 860	19 424	24 792	31 051	38 292	-	-
50	6 723	9 770	13 404	17 715	22 791	28 719	35 589	-	-
55	5 656	8 513	11 920	15 963	20 731	26 314	32 799	-	-
60	-	-	10 421	14 182	18 630	23 852	29 938	-	-
65	-	-	-	12 391	16 503	21 351	27 023	-	-
70	-	-	-	-	-	18 826	24 070	-	-

**Power input in W**

35	5 512	6 257	6 902	7 443	7 875	8 194	8 396	-	-
40	5 574	6 413	7 169	7 838	8 415	8 896	9 276	-	-
45	5 577	6 496	7 349	8 131	8 838	9 466	10 009	-	-
50	5 549	6 533	7 468	8 348	9 171	9 930	10 622	-	-
55	5 517	6 551	7 553	8 517	9 440	10 316	11 142	-	-
60	-	-	7 630	8 664	9 672	10 651	11 596	-	-
65	-	-	-	8 815	9 895	10 962	12 011	-	-
70	-	-	-	-	-	11 275	12 414	-	-

**Current consumption in A**

35	10.21	11.57	12.60	13.34	13.84	14.14	14.27	-	-
40	10.27	11.78	12.98	13.93	14.65	15.20	15.62	-	-
45	10.28	11.92	13.28	14.41	15.36	16.15	16.83	-	-
50	10.23	11.98	13.50	14.80	15.95	16.97	17.91	-	-
55	10.11	11.97	13.62	15.09	16.42	17.66	18.84	-	-
60	-	-	13.64	15.26	16.76	18.20	19.62	-	-
65	-	-	-	15.31	16.98	18.61	20.23	-	-
70	-	-	-	-	-	18.86	20.69	-	-

**Mass flow in kg/h**

35	239	318	410	516	638	777	934	-	-
40	226	306	398	504	626	765	922	-	-
45	211	291	383	490	611	750	907	-	-
50	193	274	366	472	594	731	888	-	-
55	174	254	346	452	573	710	865	-	-
60	-	-	324	429	549	685	839	-	-
65	-	-	-	403	522	657	809	-	-
70	-	-	-	-	-	625	776	-	-

**Coefficient of performance (C.O.P.)**

35	1.79	2.14	2.55	3.04	3.63	4.32	5.17	-	-
40	1.59	1.91	2.27	2.69	3.17	3.74	4.41	-	-
45	1.40	1.69	2.02	2.39	2.81	3.28	3.83	-	-
50	1.21	1.50	1.79	2.12	2.49	2.89	3.35	-	-
55	1.03	1.30	1.58	1.87	2.20	2.55	2.94	-	-
60	-	-	1.37	1.64	1.93	2.24	2.58	-	-
65	-	-	-	1.41	1.67	1.95	2.25	-	-
70	-	-	-	-	-	1.67	1.94	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	22 791	W
Power input	9 171	W
Current consumption	15.95	A
Mass flow	594	kg/h
C.O.P.	2.49	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 80 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	10 669	14 468	19 015	24 405	30 729	38 078	46 546	-	-
40	9 623	13 282	17 651	22 823	28 890	35 945	44 079	-	-
45	8 534	12 039	16 215	21 155	26 951	33 697	41 484	-	-
50	7 420	10 756	14 724	19 417	24 928	31 351	38 777	-	-
55	6 295	9 449	13 195	17 626	22 838	28 923	35 975	-	-
60	-	-	11 643	15 799	20 698	26 432	33 096	-	-
65	-	-	-	13 952	18 524	23 894	30 157	-	-
70	-	-	-	-	-	21 327	27 178	-	-

**Power input in W**

35	5 512	6 257	6 902	7 443	7 875	8 194	8 396	-	-
40	5 574	6 413	7 169	7 838	8 415	8 896	9 276	-	-
45	5 577	6 496	7 349	8 131	8 838	9 466	10 009	-	-
50	5 549	6 533	7 468	8 348	9 171	9 930	10 622	-	-
55	5 517	6 551	7 553	8 517	9 440	10 316	11 142	-	-
60	-	-	7 630	8 664	9 672	10 651	11 596	-	-
65	-	-	-	8 815	9 895	10 962	12 011	-	-
70	-	-	-	-	-	11 275	12 414	-	-

**Current consumption in A**

35	10.21	11.57	12.60	13.34	13.84	14.14	14.27	-	-
40	10.27	11.78	12.98	13.93	14.65	15.20	15.62	-	-
45	10.28	11.92	13.28	14.41	15.36	16.15	16.83	-	-
50	10.23	11.98	13.50	14.80	15.95	16.97	17.91	-	-
55	10.11	11.97	13.62	15.09	16.42	17.66	18.84	-	-
60	-	-	13.64	15.26	16.76	18.20	19.62	-	-
65	-	-	-	15.31	16.98	18.61	20.23	-	-
70	-	-	-	-	-	18.86	20.69	-	-

**Mass flow in kg/h**

35	238	317	408	514	635	773	929	-	-
40	225	304	396	502	623	761	917	-	-
45	210	289	381	487	608	746	902	-	-
50	192	272	364	470	590	728	883	-	-
55	173	253	344	450	570	706	860	-	-
60	-	-	322	427	546	681	834	-	-
65	-	-	-	401	519	653	805	-	-
70	-	-	-	-	-	621	771	-	-

**Coefficient of performance (C.O.P.)**

35	1.94	2.31	2.76	3.28	3.90	4.65	5.54	-	-
40	1.73	2.07	2.46	2.91	3.43	4.04	4.75	-	-
45	1.53	1.85	2.21	2.60	3.05	3.56	4.14	-	-
50	1.34	1.65	1.97	2.33	2.72	3.16	3.65	-	-
55	1.14	1.44	1.75	2.07	2.42	2.80	3.23	-	-
60	-	-	1.53	1.82	2.14	2.48	2.85	-	-
65	-	-	-	1.58	1.87	2.18	2.51	-	-
70	-	-	-	-	-	1.89	2.19	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	25 674	W
Power input	9 796	W
Current consumption	16.91	A
Mass flow	630	kg/h
C.O.P.	2.62	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 85 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	10 486	14 222	18 697	24 005	30 241	37 496	45 866	-	-
40	9 412	12 997	17 284	22 364	28 333	35 283	43 308	-	-
45	8 301	11 720	15 800	20 635	26 320	32 946	40 609	-	-
50	7 174	10 408	14 265	18 838	24 220	30 507	37 790	-	-
55	6 049	9 081	12 697	16 990	22 054	27 983	34 869	-	-
60	-	-	11 116	15 112	19 840	25 393	31 866	-	-
65	-	-	-	13 222	17 596	22 757	28 799	-	-
70	-	-	-	-	-	20 095	25 687	-	-

**Power input in W**

35	5 842	6 674	7 393	7 991	8 459	8 786	8 965	-	-
40	5 899	6 830	7 674	8 422	9 064	9 593	9 997	-	-
45	5 895	6 902	7 846	8 720	9 514	10 218	10 824	-	-
50	5 872	6 929	7 951	8 926	9 847	10 704	11 488	-	-
55	5 869	6 955	8 029	9 082	10 107	11 092	12 029	-	-
60	-	-	8 122	9 230	10 333	11 423	12 490	-	-
65	-	-	-	9 409	10 568	11 738	12 911	-	-
70	-	-	-	-	-	12 080	13 335	-	-

**Current consumption in A**

35	10.77	12.24	13.36	14.17	14.70	15.01	15.11	-	-
40	10.80	12.45	13.76	14.79	15.58	16.15	16.57	-	-
45	10.78	12.58	14.07	15.31	16.32	17.16	17.86	-	-
50	10.70	12.63	14.29	15.71	16.94	18.03	18.99	-	-
55	10.56	12.61	14.41	16.01	17.44	18.74	19.97	-	-
60	-	-	14.43	16.19	17.80	19.31	20.77	-	-
65	-	-	-	16.25	18.03	19.73	21.41	-	-
70	-	-	-	-	-	20.00	21.88	-	-

**Mass flow in kg/h**

35	255	338	435	547	676	822	988	-	-
40	241	325	423	535	664	810	977	-	-
45	224	310	408	520	649	796	961	-	-
50	206	291	390	502	631	777	942	-	-
55	186	271	369	481	609	755	920	-	-
60	-	-	345	457	584	729	893	-	-
65	-	-	-	430	556	700	862	-	-
70	-	-	-	-	-	667	828	-	-

**Coefficient of performance (C.O.P.)**

35	1.79	2.13	2.53	3.00	3.58	4.27	5.12	-	-
40	1.60	1.90	2.25	2.66	3.13	3.68	4.33	-	-
45	1.41	1.70	2.01	2.37	2.77	3.22	3.75	-	-
50	1.22	1.50	1.79	2.11	2.46	2.85	3.29	-	-
55	1.03	1.31	1.58	1.87	2.18	2.52	2.90	-	-
60	-	-	1.37	1.64	1.92	2.22	2.55	-	-
65	-	-	-	1.41	1.67	1.94	2.23	-	-
70	-	-	-	-	-	1.66	1.93	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	24 220	W
Power input	9 847	W
Current consumption	16.94	A
Mass flow	631	kg/h
C.O.P.	2.46	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 85 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	11 357	15 377	20 183	25 874	32 546	40 297	49 224	-	-
40	10 249	14 127	18 752	24 223	30 637	38 091	46 684	-	-
45	9 096	12 815	17 241	22 474	28 612	35 753	43 995	-	-
50	7 918	11 459	15 669	20 647	26 492	33 302	41 176	-	-
55	6 733	10 080	14 056	18 761	24 295	30 757	38 246	-	-
60	-	-	12 419	16 835	22 042	28 139	35 227	-	-
65	-	-	-	14 888	19 751	25 468	32 139	-	-
70	-	-	-	-	-	22 764	29 003	-	-

**Power input in W**

35	5 842	6 674	7 393	7 991	8 459	8 786	8 965	-	-
40	5 899	6 830	7 674	8 422	9 064	9 593	9 997	-	-
45	5 895	6 902	7 846	8 720	9 514	10 218	10 824	-	-
50	5 872	6 929	7 951	8 926	9 847	10 704	11 488	-	-
55	5 869	6 955	8 029	9 082	10 107	11 092	12 029	-	-
60	-	-	8 122	9 230	10 333	11 423	12 490	-	-
65	-	-	-	9 409	10 568	11 738	12 911	-	-
70	-	-	-	-	-	12 080	13 335	-	-

**Current consumption in A**

35	10.77	12.24	13.36	14.17	14.70	15.01	15.11	-	-
40	10.80	12.45	13.76	14.79	15.58	16.15	16.57	-	-
45	10.78	12.58	14.07	15.31	16.32	17.16	17.86	-	-
50	10.70	12.63	14.29	15.71	16.94	18.03	18.99	-	-
55	10.56	12.61	14.41	16.01	17.44	18.74	19.97	-	-
60	-	-	14.43	16.19	17.80	19.31	20.77	-	-
65	-	-	-	16.25	18.03	19.73	21.41	-	-
70	-	-	-	-	-	20.00	21.88	-	-

**Mass flow in kg/h**

35	253	337	433	544	672	817	982	-	-
40	239	324	421	532	660	806	971	-	-
45	223	308	406	518	646	791	956	-	-
50	205	290	388	500	627	773	937	-	-
55	185	269	367	479	606	751	915	-	-
60	-	-	343	455	581	725	888	-	-
65	-	-	-	427	553	696	858	-	-
70	-	-	-	-	-	663	823	-	-

**Coefficient of performance (C.O.P.)**

35	1.94	2.30	2.73	3.24	3.85	4.59	5.49	-	-
40	1.74	2.07	2.44	2.88	3.38	3.97	4.67	-	-
45	1.54	1.86	2.20	2.58	3.01	3.50	4.06	-	-
50	1.35	1.65	1.97	2.31	2.69	3.11	3.58	-	-
55	1.15	1.45	1.75	2.07	2.40	2.77	3.18	-	-
60	-	-	1.53	1.82	2.13	2.46	2.82	-	-
65	-	-	-	1.58	1.87	2.17	2.49	-	-
70	-	-	-	-	-	1.88	2.18	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	27 304	W
Power input	10 511	W
Current consumption	17.96	A
Mass flow	670	kg/h
C.O.P.	2.60	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 90 Hz, EN 12900 rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	11 115	15 054	19 764	25 346	31 898	39 519	48 308	-	-
40	9 982	13 768	18 287	23 640	29 924	37 238	45 682	-	-
45	8 811	12 423	16 731	21 833	27 829	34 817	42 895	-	-
50	7 625	11 043	15 118	19 950	25 636	32 276	39 969	-	-
55	6 444	9 648	13 470	18 010	23 367	29 639	36 924	-	-
60	-	-	11 809	16 037	21 043	26 926	33 785	-	-
65	-	-	-	14 053	18 688	24 161	30 572	-	-
70	-	-	-	-	-	21 365	27 307	-	-

**Power input in W**

35	6 170	7 094	7 891	8 549	9 052	9 386	9 536	-	-
40	6 221	7 249	8 186	9 017	9 729	10 306	10 735	-	-
45	6 208	7 306	8 348	9 319	10 205	10 991	11 664	-	-
50	6 190	7 323	8 435	9 511	10 537	11 498	12 380	-	-
55	6 223	7 358	8 505	9 652	10 783	11 885	12 942	-	-
60	-	-	8 616	9 799	11 001	12 209	13 407	-	-
65	-	-	-	10 011	11 249	12 528	13 832	-	-
70	-	-	-	-	-	12 901	14 277	-	-

**Current consumption in A**

35	11.33	12.92	14.13	15.00	15.57	15.88	15.96	-	-
40	11.33	13.12	14.55	15.67	16.51	17.11	17.52	-	-
45	11.27	13.23	14.86	16.21	17.30	18.18	18.89	-	-
50	11.16	13.27	15.08	16.63	17.95	19.09	20.08	-	-
55	10.99	13.23	15.20	16.93	18.46	19.83	21.09	-	-
60	-	-	15.23	17.12	18.84	20.43	21.92	-	-
65	-	-	-	17.20	19.09	20.87	22.58	-	-
70	-	-	-	-	-	21.16	23.07	-	-

**Mass flow in kg/h**

35	270	358	460	578	713	866	1 040	-	-
40	255	344	447	566	701	855	1 030	-	-
45	238	328	432	550	686	841	1 016	-	-
50	219	309	413	532	668	822	997	-	-
55	198	288	391	510	645	800	974	-	-
60	-	-	367	485	620	773	947	-	-
65	-	-	-	457	591	743	915	-	-
70	-	-	-	-	-	709	880	-	-

**Coefficient of performance (C.O.P.)**

35	1.80	2.12	2.50	2.96	3.52	4.21	5.07	-	-
40	1.60	1.90	2.23	2.62	3.08	3.61	4.26	-	-
45	1.42	1.70	2.00	2.34	2.73	3.17	3.68	-	-
50	1.23	1.51	1.79	2.10	2.43	2.81	3.23	-	-
55	1.04	1.31	1.58	1.87	2.17	2.49	2.85	-	-
60	-	-	1.37	1.64	1.91	2.21	2.52	-	-
65	-	-	-	1.40	1.66	1.93	2.21	-	-
70	-	-	-	-	-	1.66	1.91	-	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	25 636	W
Power input	10 537	W
Current consumption	17.95	A
Mass flow	668	kg/h
C.O.P.	2.43	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 90 Hz, ARI rating conditions**
**R134a**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-15	-10	-5	0	5	10	15	

**Cooling capacity in W**

35	12 039	16 277	21 335	27 319	34 330	42 471	51 845	-	-
40	10 871	14 965	19 841	25 604	32 357	40 203	49 244	-	-
45	9 655	13 584	18 257	23 779	30 253	37 783	46 471	-	-
50	8 415	12 158	16 607	21 866	28 040	35 234	43 549	-	-
55	7 172	10 708	14 911	19 888	25 742	32 578	40 500	-	-
60	-	-	13 194	17 866	23 379	29 838	37 348	-	-
65	-	-	-	15 824	20 976	27 039	34 117	-	-
70	-	-	-	-	-	24 204	30 833	-	-

**Power input in W**

35	6 170	7 094	7 891	8 549	9 052	9 386	9 536	-	-
40	6 221	7 249	8 186	9 017	9 729	10 306	10 735	-	-
45	6 208	7 306	8 348	9 319	10 205	10 991	11 664	-	-
50	6 190	7 323	8 435	9 511	10 537	11 498	12 380	-	-
55	6 223	7 358	8 505	9 652	10 783	11 885	12 942	-	-
60	-	-	8 616	9 799	11 001	12 209	13 407	-	-
65	-	-	-	10 011	11 249	12 528	13 832	-	-
70	-	-	-	-	-	12 901	14 277	-	-

**Current consumption in A**

35	11.33	12.92	14.13	15.00	15.57	15.88	15.96	-	-
40	11.33	13.12	14.55	15.67	16.51	17.11	17.52	-	-
45	11.27	13.23	14.86	16.21	17.30	18.18	18.89	-	-
50	11.16	13.27	15.08	16.63	17.95	19.09	20.08	-	-
55	10.99	13.23	15.20	16.93	18.46	19.83	21.09	-	-
60	-	-	15.23	17.12	18.84	20.43	21.92	-	-
65	-	-	-	17.20	19.09	20.87	22.58	-	-
70	-	-	-	-	-	21.16	23.07	-	-

**Mass flow in kg/h**

35	269	356	458	575	709	862	1 035	-	-
40	254	343	445	563	698	851	1 024	-	-
45	237	326	429	548	683	836	1 010	-	-
50	218	308	411	529	664	818	991	-	-
55	197	286	389	507	642	795	968	-	-
60	-	-	365	482	617	769	941	-	-
65	-	-	-	454	588	739	910	-	-
70	-	-	-	-	-	705	875	-	-

**Coefficient of performance (C.O.P.)**

35	1.95	2.29	2.70	3.20	3.79	4.53	5.44	-	-
40	1.75	2.06	2.42	2.84	3.33	3.90	4.59	-	-
45	1.56	1.86	2.19	2.55	2.96	3.44	3.98	-	-
50	1.36	1.66	1.97	2.30	2.66	3.06	3.52	-	-
55	1.15	1.46	1.75	2.06	2.39	2.74	3.13	-	-
60	-	-	1.53	1.82	2.13	2.44	2.79	-	-
65	-	-	-	1.58	1.86	2.16	2.47	-	-
70	-	-	-	-	-	1.88	2.16	-	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	28 921	W
Power input	11 239	W
Current consumption	19.02	A
Mass flow	710	kg/h
C.O.P.	2.57	

**Pressure switch settings**

Maximum HP switch setting	22.6	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.5	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 30 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	3 902	5 364	7 185	9 400	12 046	15 159	-	-	-
30	2 923	4 153	5 684	7 553	9 794	12 445	15 541	19 118	-
35	2 489	3 606	4 995	6 693	8 735	11 157	13 996	17 288	-
40	2 089	3 094	4 343	5 872	7 716	9 913	12 497	15 504	-
45	1 721	2 616	3 727	5 089	6 737	8 709	11 039	13 765	-
50	1 382	2 170	3 144	4 340	5 795	7 543	9 622	12 068	-
55	-	1 752	2 591	3 624	4 886	6 414	8 244	10 410	-
60	-	-	2 068	2 939	4 010	5 319	6 900	8 791	-

**Power input in W**

20	2 314	2 592	2 834	3 038	3 198	3 309	-	-	-
30	2 318	2 654	2 961	3 235	3 472	3 667	3 816	3 913	-
35	2 320	2 691	3 037	3 353	3 636	3 879	4 080	4 231	-
40	2 312	2 722	3 112	3 475	3 807	4 103	4 360	4 571	-
45	2 285	2 740	3 177	3 591	3 977	4 331	4 648	4 923	-
50	2 234	2 738	3 226	3 695	4 140	4 556	4 938	5 281	-
55	-	2 706	3 251	3 780	4 288	4 770	5 221	5 637	-
60	-	-	3 245	3 838	4 413	4 965	5 490	5 983	-

**Current consumption in A**

20	3.16	3.49	3.80	4.10	4.36	4.57	-	-	-
30	3.40	3.77	4.13	4.47	4.78	5.06	5.29	5.47	-
35	3.45	3.86	4.25	4.64	4.99	5.32	5.60	5.82	-
40	3.46	3.91	4.36	4.79	5.20	5.58	5.91	6.20	-
45	3.43	3.93	4.43	4.92	5.39	5.84	6.24	6.59	-
50	3.34	3.91	4.48	5.04	5.58	6.09	6.57	7.01	-
55	-	3.85	4.49	5.13	5.75	6.35	6.92	7.44	-
60	-	-	4.47	5.20	5.91	6.60	7.26	7.88	-

**Mass flow in kg/h**

20	108	145	190	244	305	377	-	-	-
30	92	128	170	221	279	346	424	511	-
35	84	119	160	209	266	331	406	491	-
40	77	110	150	197	252	316	388	471	-
45	69	102	140	186	239	300	370	451	-
50	62	93	130	174	225	284	352	430	-
55	-	85	121	163	212	269	334	409	-
60	-	-	111	151	198	253	316	388	-

**Coefficient of performance (C.O.P.)**

20	1.69	2.07	2.53	3.09	3.77	4.58	-	-	-
30	1.26	1.57	1.92	2.33	2.82	3.39	4.07	4.89	-
35	1.07	1.34	1.64	2.00	2.40	2.88	3.43	4.09	-
40	0.90	1.14	1.40	1.69	2.03	2.42	2.87	3.39	-
45	0.75	0.95	1.17	1.42	1.69	2.01	2.38	2.80	-
50	0.62	0.79	0.97	1.17	1.40	1.66	1.95	2.28	-
55	-	0.65	0.80	0.96	1.14	1.34	1.58	1.85	-
60	-	-	0.64	0.77	0.91	1.07	1.26	1.47	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	6 737	W
Power input	3 977	W
Current consumption	5.39	A
Mass flow	239	kg/h
C.O.P.	1.69	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 30 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	4 273	5 862	7 836	10 233	13 089	16 443	-	-	-
30	3 254	4 610	6 294	8 343	10 794	13 685	17 055	20 939	-
35	2 800	4 044	5 585	7 463	9 714	12 377	15 489	19 089	-
40	2 381	3 514	4 915	6 623	8 676	11 113	13 971	17 289	-
45	1 994	3 019	4 281	5 822	7 680	9 892	12 499	15 537	-
50	-	2 555	3 683	5 059	6 723	8 715	11 073	13 835	-
55	-	-	3 118	4 333	5 808	7 583	9 697	12 189	-
60	-	-	-	3 648	4 939	6 503	8 381	10 612	-

**Power input in W**

20	2 314	2 592	2 834	3 038	3 198	3 309	-	-	-
30	2 318	2 654	2 961	3 235	3 472	3 667	3 816	3 913	-
35	2 320	2 691	3 037	3 353	3 636	3 879	4 080	4 231	-
40	2 312	2 722	3 112	3 475	3 807	4 103	4 360	4 571	-
45	2 285	2 740	3 177	3 591	3 977	4 331	4 648	4 923	-
50	-	2 738	3 226	3 695	4 140	4 556	4 938	5 281	-
55	-	-	3 251	3 780	4 288	4 770	5 221	5 637	-
60	-	-	-	3 838	4 413	4 965	5 490	5 983	-

**Current consumption in A**

20	3.16	3.49	3.80	4.10	4.36	4.57	-	-	-
30	3.40	3.77	4.13	4.47	4.78	5.06	5.29	5.47	-
35	3.45	3.86	4.25	4.64	4.99	5.32	5.60	5.82	-
40	3.46	3.91	4.36	4.79	5.20	5.58	5.91	6.20	-
45	3.43	3.93	4.43	4.92	5.39	5.84	6.24	6.59	-
50	-	3.91	4.48	5.04	5.58	6.09	6.57	7.01	-
55	-	-	4.49	5.13	5.75	6.35	6.92	7.44	-
60	-	-	-	5.20	5.91	6.60	7.26	7.88	-

**Mass flow in kg/h**

20	107	145	189	242	304	374	-	-	-
30	91	127	170	219	277	344	421	508	-
35	84	118	160	208	264	329	404	488	-
40	76	110	150	196	251	314	386	468	-
45	69	101	140	185	237	298	368	448	-
50	-	93	130	173	224	283	350	427	-
55	-	-	120	162	210	267	332	406	-
60	-	-	-	150	197	251	314	385	-

**Coefficient of performance (C.O.P.)**

20	1.85	2.26	2.76	3.37	4.09	4.97	-	-	-
30	1.40	1.74	2.13	2.58	3.11	3.73	4.47	5.35	-
35	1.21	1.50	1.84	2.23	2.67	3.19	3.80	4.51	-
40	1.03	1.29	1.58	1.91	2.28	2.71	3.20	3.78	-
45	0.87	1.10	1.35	1.62	1.93	2.28	2.69	3.16	-
50	-	0.93	1.14	1.37	1.62	1.91	2.24	2.62	-
55	-	-	0.96	1.15	1.35	1.59	1.86	2.16	-
60	-	-	-	0.95	1.12	1.31	1.53	1.77	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	7 680	W
Power input	3 977	W
Current consumption	5.39	A
Mass flow	237	kg/h
C.O.P.	1.93	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 35 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	4 538	6 169	8 224	10 753	13 805	17 433	-	-	-
30	3 515	4 917	6 671	8 829	11 440	14 555	18 226	22 503	-
35	3 041	4 328	5 933	7 905	10 296	13 156	16 536	20 486	-
40	2 589	3 762	5 217	7 005	9 175	11 780	14 869	18 494	-
45	2 157	3 217	4 523	6 126	8 077	10 427	13 226	16 525	-
50	1 745	2 691	3 849	5 268	7 000	9 095	11 604	14 578	-
55	-	2 184	3 193	4 428	5 941	7 782	10 001	12 651	-
60	-	-	2 554	3 606	4 900	6 487	8 417	10 742	-

**Power input in W**

20	2 641	2 965	3 253	3 504	3 718	3 891	-	-	-
30	2 692	3 082	3 436	3 754	4 034	4 273	4 470	4 624	-
35	2 715	3 149	3 547	3 908	4 231	4 513	4 754	4 951	-
40	2 724	3 208	3 656	4 068	4 441	4 774	5 064	5 312	-
45	2 707	3 249	3 755	4 223	4 653	5 043	5 391	5 695	-
50	2 656	3 261	3 831	4 364	4 858	5 312	5 723	6 091	-
55	-	3 236	3 877	4 481	5 045	5 570	6 052	6 490	-
60	-	-	3 881	4 562	5 205	5 806	6 366	6 882	-

**Current consumption in A**

20	3.65	4.01	4.34	4.65	4.91	5.12	-	-	-
30	3.88	4.31	4.71	5.09	5.44	5.73	5.97	6.15	-
35	3.95	4.42	4.88	5.31	5.70	6.06	6.36	6.59	-
40	3.97	4.50	5.01	5.51	5.97	6.39	6.75	7.06	-
45	3.94	4.54	5.12	5.69	6.22	6.71	7.15	7.54	-
50	3.87	4.54	5.20	5.84	6.45	7.03	7.56	8.03	-
55	-	4.48	5.23	5.96	6.66	7.33	7.96	8.53	-
60	-	-	5.21	6.04	6.84	7.61	8.34	9.02	-

**Mass flow in kg/h**

20	125	168	218	279	350	433	-	-	-
30	111	151	200	258	326	405	497	602	-
35	103	143	191	247	313	390	480	582	-
40	95	134	181	236	300	375	462	562	-
45	87	125	170	224	286	359	444	541	-
50	78	116	160	211	272	343	425	519	-
55	-	106	149	199	257	326	405	497	-
60	-	-	137	185	242	308	385	474	-

**Coefficient of performance (C.O.P.)**

20	1.72	2.08	2.53	3.07	3.71	4.48	-	-	-
30	1.31	1.60	1.94	2.35	2.84	3.41	4.08	4.87	-
35	1.12	1.37	1.67	2.02	2.43	2.91	3.48	4.14	-
40	0.95	1.17	1.43	1.72	2.07	2.47	2.94	3.48	-
45	0.80	0.99	1.20	1.45	1.74	2.07	2.45	2.90	-
50	0.66	0.83	1.00	1.21	1.44	1.71	2.03	2.39	-
55	-	0.67	0.82	0.99	1.18	1.40	1.65	1.95	-
60	-	-	0.66	0.79	0.94	1.12	1.32	1.56	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	8 077	W
Power input	4 653	W
Current consumption	6.22	A
Mass flow	286	kg/h
C.O.P.	1.74	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 35 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	4 969	6 741	8 969	11 704	15 001	18 910	-	-	-
30	3 913	5 459	7 387	9 752	12 607	16 006	20 001	24 646	-
35	3 421	4 854	6 634	8 814	11 450	14 594	18 300	22 621	-
40	2 951	4 272	5 904	7 900	10 316	13 206	16 624	20 623	-
45	2 500	3 711	5 196	7 009	9 207	11 844	14 974	18 653	-
50	-	3 170	4 508	6 140	8 121	10 507	13 353	16 713	-
55	-	-	3 842	5 295	7 062	9 200	11 765	14 812	-
60	-	-	-	4 476	6 035	7 931	10 223	12 967	-

**Power input in W**

20	2 641	2 965	3 253	3 504	3 718	3 891	-	-	-
30	2 692	3 082	3 436	3 754	4 034	4 273	4 470	4 624	-
35	2 715	3 149	3 547	3 908	4 231	4 513	4 754	4 951	-
40	2 724	3 208	3 656	4 068	4 441	4 774	5 064	5 312	-
45	2 707	3 249	3 755	4 223	4 653	5 043	5 391	5 695	-
50	-	3 261	3 831	4 364	4 858	5 312	5 723	6 091	-
55	-	-	3 877	4 481	5 045	5 570	6 052	6 490	-
60	-	-	-	4 562	5 205	5 806	6 366	6 882	-

**Current consumption in A**

20	3.65	4.01	4.34	4.65	4.91	5.12	-	-	-
30	3.88	4.31	4.71	5.09	5.44	5.73	5.97	6.15	-
35	3.95	4.42	4.88	5.31	5.70	6.06	6.36	6.59	-
40	3.97	4.50	5.01	5.51	5.97	6.39	6.75	7.06	-
45	3.94	4.54	5.12	5.69	6.22	6.71	7.15	7.54	-
50	-	4.54	5.20	5.84	6.45	7.03	7.56	8.03	-
55	-	-	5.23	5.96	6.66	7.33	7.96	8.53	-
60	-	-	-	6.04	6.84	7.61	8.34	9.02	-

**Mass flow in kg/h**

20	124	167	217	277	348	431	-	-	-
30	110	151	199	256	324	403	494	598	-
35	102	142	190	245	311	388	477	579	-
40	94	133	180	234	298	373	459	558	-
45	86	124	169	222	285	357	441	537	-
50	-	115	159	210	271	341	422	516	-
55	-	-	148	198	256	324	403	494	-
60	-	-	-	184	241	307	383	471	-

**Coefficient of performance (C.O.P.)**

20	1.88	2.27	2.76	3.34	4.04	4.86	-	-	-
30	1.45	1.77	2.15	2.60	3.13	3.75	4.47	5.33	-
35	1.26	1.54	1.87	2.26	2.71	3.23	3.85	4.57	-
40	1.08	1.33	1.61	1.94	2.32	2.77	3.28	3.88	-
45	0.92	1.14	1.38	1.66	1.98	2.35	2.78	3.28	-
50	-	0.97	1.18	1.41	1.67	1.98	2.33	2.74	-
55	-	-	0.99	1.18	1.40	1.65	1.94	2.28	-
60	-	-	-	0.98	1.16	1.37	1.61	1.88	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	9 207	W
Power input	4 653	W
Current consumption	6.22	A
Mass flow	285	kg/h
C.O.P.	1.98	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 40 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	5 170	6 988	9 291	12 141	15 602	19 735	-	-	-
30	4 091	5 676	7 664	10 118	13 098	16 670	20 894	25 833	-
35	3 571	5 039	6 868	9 121	11 861	15 149	19 050	23 624	-
40	3 063	4 412	6 082	8 134	10 631	13 637	17 212	21 421	-
45	2 566	3 796	5 305	7 155	9 409	12 130	15 380	19 222	-
50	2 078	3 188	4 536	6 183	8 193	10 629	13 552	17 026	-
55	-	2 589	3 774	5 218	6 983	9 132	11 728	14 833	-
60	-	-	3 019	4 258	5 777	7 639	9 907	12 642	-

**Power input in W**

20	2 985	3 357	3 693	3 992	4 257	4 488	-	-	-
30	3 077	3 528	3 935	4 301	4 627	4 913	5 161	5 371	-
35	3 116	3 620	4 077	4 490	4 859	5 186	5 472	5 717	-
40	3 135	3 700	4 216	4 685	5 107	5 483	5 815	6 105	-
45	3 122	3 757	4 341	4 874	5 357	5 792	6 180	6 522	-
50	3 063	3 777	4 437	5 044	5 598	6 100	6 553	6 957	-
55	-	3 749	4 495	5 183	5 817	6 396	6 922	7 396	-
60	-	-	4 500	5 280	6 002	6 666	7 275	7 829	-

**Current consumption in A**

20	4.14	4.54	4.91	5.24	5.51	5.73	-	-	-
30	4.37	4.87	5.33	5.76	6.14	6.46	6.72	6.91	-
35	4.44	5.00	5.52	6.01	6.46	6.85	7.18	7.44	-
40	4.47	5.09	5.69	6.25	6.77	7.24	7.65	7.99	-
45	4.45	5.15	5.83	6.47	7.07	7.63	8.13	8.56	-
50	4.37	5.15	5.92	6.65	7.35	8.00	8.59	9.12	-
55	-	5.10	5.96	6.79	7.59	8.34	9.04	9.68	-
60	-	-	5.94	6.88	7.79	8.65	9.47	10.22	-

**Mass flow in kg/h**

20	143	190	247	315	396	491	-	-	-
30	129	175	230	296	373	464	569	691	-
35	121	166	221	285	361	449	552	671	-
40	112	157	211	274	347	434	535	651	-
45	103	148	200	261	334	418	516	629	-
50	93	137	188	248	319	401	496	607	-
55	-	125	176	234	303	383	476	583	-
60	-	-	162	219	286	363	454	558	-

**Coefficient of performance (C.O.P.)**

20	1.73	2.08	2.52	3.04	3.67	4.40	-	-	-
30	1.33	1.61	1.95	2.35	2.83	3.39	4.05	4.81	-
35	1.15	1.39	1.68	2.03	2.44	2.92	3.48	4.13	-
40	0.98	1.19	1.44	1.74	2.08	2.49	2.96	3.51	-
45	0.82	1.01	1.22	1.47	1.76	2.09	2.49	2.95	-
50	0.68	0.84	1.02	1.23	1.46	1.74	2.07	2.45	-
55	-	0.69	0.84	1.01	1.20	1.43	1.69	2.01	-
60	-	-	0.67	0.81	0.96	1.15	1.36	1.61	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	9 409	W
Power input	5 357	W
Current consumption	7.07	A
Mass flow	334	kg/h
C.O.P.	1.76	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 40 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	5 661	7 636	10 132	13 216	16 953	21 407	-	-	-
30	4 554	6 302	8 487	11 176	14 435	18 331	22 928	28 293	-
35	4 018	5 651	7 680	10 171	13 190	16 805	21 082	26 086	-
40	3 492	5 011	6 883	9 174	11 954	15 288	19 243	23 886	-
45	2 974	4 379	6 094	8 186	10 725	13 779	17 413	21 696	-
50	-	3 755	5 313	7 207	9 507	12 280	15 595	19 520	-
55	-	-	4 541	6 239	8 300	10 796	13 796	17 368	-
60	-	-	-	5 286	7 115	9 340	12 032	15 261	-

**Power input in W**

20	2 985	3 357	3 693	3 992	4 257	4 488	-	-	-
30	3 077	3 528	3 935	4 301	4 627	4 913	5 161	5 371	-
35	3 116	3 620	4 077	4 490	4 859	5 186	5 472	5 717	-
40	3 135	3 700	4 216	4 685	5 107	5 483	5 815	6 105	-
45	3 122	3 757	4 341	4 874	5 357	5 792	6 180	6 522	-
50	-	3 777	4 437	5 044	5 598	6 100	6 553	6 957	-
55	-	-	4 495	5 183	5 817	6 396	6 922	7 396	-
60	-	-	-	5 280	6 002	6 666	7 275	7 829	-

**Current consumption in A**

20	4.14	4.54	4.91	5.24	5.51	5.73	-	-	-
30	4.37	4.87	5.33	5.76	6.14	6.46	6.72	6.91	-
35	4.44	5.00	5.52	6.01	6.46	6.85	7.18	7.44	-
40	4.47	5.09	5.69	6.25	6.77	7.24	7.65	7.99	-
45	4.45	5.15	5.83	6.47	7.07	7.63	8.13	8.56	-
50	-	5.15	5.92	6.65	7.35	8.00	8.59	9.12	-
55	-	-	5.96	6.79	7.59	8.34	9.04	9.68	-
60	-	-	-	6.88	7.79	8.65	9.47	10.22	-

**Mass flow in kg/h**

20	142	189	246	313	394	488	-	-	-
30	128	174	229	294	371	461	566	687	-
35	120	166	219	283	358	447	549	667	-
40	112	157	209	272	345	431	531	647	-
45	103	147	199	260	332	415	513	625	-
50	-	136	187	247	317	398	493	603	-
55	-	-	175	233	301	380	473	579	-
60	-	-	-	218	284	361	451	554	-

**Coefficient of performance (C.O.P.)**

20	1.90	2.27	2.74	3.31	3.98	4.77	-	-	-
30	1.48	1.79	2.16	2.60	3.12	3.73	4.44	5.27	-
35	1.29	1.56	1.88	2.27	2.71	3.24	3.85	4.56	-
40	1.11	1.35	1.63	1.96	2.34	2.79	3.31	3.91	-
45	0.95	1.17	1.40	1.68	2.00	2.38	2.82	3.33	-
50	-	0.99	1.20	1.43	1.70	2.01	2.38	2.81	-
55	-	-	1.01	1.20	1.43	1.69	1.99	2.35	-
60	-	-	-	1.00	1.19	1.40	1.65	1.95	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	10 725	W
Power input	5 357	W
Current consumption	7.07	A
Mass flow	332	kg/h
C.O.P.	2.00	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 45 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	5 800	7 820	10 385	13 566	17 436	22 065	-	-	-
30	4 650	6 431	8 663	11 420	14 770	18 788	23 543	29 107	-
35	4 079	5 738	7 801	10 342	13 430	17 139	21 538	26 701	-
40	3 511	5 045	6 938	9 260	12 085	15 482	19 525	24 283	-
45	2 946	4 353	6 072	8 175	10 734	13 818	17 501	21 854	-
50	2 382	3 660	5 205	7 086	9 376	12 146	15 468	19 413	-
55	-	2 967	4 335	5 993	8 013	10 466	13 424	16 959	-
60	-	-	3 462	4 894	6 642	8 776	11 370	14 493	-

**Power input in W**

20	3 345	3 770	4 154	4 501	4 816	5 101	-	-	-
30	3 473	3 991	4 457	4 877	5 252	5 587	5 887	6 154	-
35	3 524	4 104	4 628	5 099	5 521	5 897	6 232	6 529	-
40	3 547	4 200	4 792	5 325	5 804	6 232	6 613	6 951	-
45	3 528	4 266	4 936	5 542	6 088	6 578	7 016	7 405	-
50	3 454	4 286	5 045	5 734	6 359	6 922	7 427	7 878	-
55	-	4 247	5 105	5 889	6 602	7 248	7 832	8 356	-
60	-	-	5 102	5 991	6 804	7 544	8 216	8 823	-

**Current consumption in A**

20	4.64	5.10	5.52	5.88	6.18	6.41	-	-	-
30	4.87	5.45	5.98	6.46	6.89	7.25	7.54	7.76	-
35	4.94	5.59	6.20	6.75	7.26	7.70	8.07	8.37	-
40	4.97	5.70	6.39	7.03	7.62	8.15	8.61	9.00	-
45	4.95	5.76	6.54	7.28	7.96	8.59	9.15	9.64	-
50	4.85	5.77	6.65	7.48	8.27	9.00	9.67	10.27	-
55	-	5.70	6.69	7.64	8.54	9.38	10.17	10.89	-
60	-	-	6.66	7.72	8.75	9.72	10.63	11.47	-

**Mass flow in kg/h**

20	160	213	276	353	443	550	-	-	-
30	146	198	260	334	421	523	642	779	-
35	138	190	251	323	408	508	625	759	-
40	129	180	240	311	395	493	606	738	-
45	119	169	229	299	380	476	587	715	-
50	107	157	216	285	365	458	566	692	-
55	-	144	202	269	347	439	544	666	-
60	-	-	186	252	328	417	521	639	-

**Coefficient of performance (C.O.P.)**

20	1.73	2.07	2.50	3.01	3.62	4.33	-	-	-
30	1.34	1.61	1.94	2.34	2.81	3.36	4.00	4.73	-
35	1.16	1.40	1.69	2.03	2.43	2.91	3.46	4.09	-
40	0.99	1.20	1.45	1.74	2.08	2.48	2.95	3.49	-
45	0.83	1.02	1.23	1.48	1.76	2.10	2.49	2.95	-
50	0.69	0.85	1.03	1.24	1.47	1.75	2.08	2.46	-
55	-	0.70	0.85	1.02	1.21	1.44	1.71	2.03	-
60	-	-	0.68	0.82	0.98	1.16	1.38	1.64	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	10 734	W
Power input	6 088	W
Current consumption	7.96	A
Mass flow	380	kg/h
C.O.P.	1.76	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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# Datasheet, performance data

# Inverter reciprocating compressors VTZ171-G

## Performance data at 45 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

## R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

### Cooling capacity in W

20	6 351	8 545	11 325	14 767	18 946	23 934	-	-	-
30	5 176	7 139	9 593	12 614	16 278	20 660	25 836	31 879	-
35	4 590	6 435	8 724	11 532	14 936	19 012	23 836	29 483	-
40	4 003	5 730	7 851	10 445	13 588	17 357	21 829	27 078	-
45	3 414	5 022	6 976	9 354	12 235	15 696	19 815	24 668	-
50	-	4 311	6 097	8 260	10 879	14 033	17 800	22 256	-
55	-	-	5 216	7 165	9 524	12 373	15 791	19 857	-
60	-	-	-	6 075	8 180	10 730	13 809	17 495	-

### Power input in W

20	3 345	3 770	4 154	4 501	4 816	5 101	-	-	-
30	3 473	3 991	4 457	4 877	5 252	5 587	5 887	6 154	-
35	3 524	4 104	4 628	5 099	5 521	5 897	6 232	6 529	-
40	3 547	4 200	4 792	5 325	5 804	6 232	6 613	6 951	-
45	3 528	4 266	4 936	5 542	6 088	6 578	7 016	7 405	-
50	-	4 286	5 045	5 734	6 359	6 922	7 427	7 878	-
55	-	-	5 105	5 889	6 602	7 248	7 832	8 356	-
60	-	-	-	5 991	6 804	7 544	8 216	8 823	-

### Current consumption in A

20	4.64	5.10	5.52	5.88	6.18	6.41	-	-	-
30	4.87	5.45	5.98	6.46	6.89	7.25	7.54	7.76	-
35	4.94	5.59	6.20	6.75	7.26	7.70	8.07	8.37	-
40	4.97	5.70	6.39	7.03	7.62	8.15	8.61	9.00	-
45	4.95	5.76	6.54	7.28	7.96	8.59	9.15	9.64	-
50	-	5.77	6.65	7.48	8.27	9.00	9.67	10.27	-
55	-	-	6.69	7.64	8.54	9.38	10.17	10.89	-
60	-	-	-	7.72	8.75	9.72	10.63	11.47	-

### Mass flow in kg/h

20	159	212	275	351	441	546	-	-	-
30	145	197	259	332	418	520	638	774	-
35	137	188	249	321	406	505	621	754	-
40	128	179	239	310	393	490	603	733	-
45	118	168	228	297	378	473	583	711	-
50	-	156	215	283	363	455	563	687	-
55	-	-	200	267	345	436	541	662	-
60	-	-	-	250	326	415	517	635	-

### Coefficient of performance (C.O.P.)

20	1.90	2.27	2.73	3.28	3.93	4.69	-	-	-
30	1.49	1.79	2.15	2.59	3.10	3.70	4.39	5.18	-
35	1.30	1.57	1.88	2.26	2.71	3.22	3.82	4.52	-
40	1.13	1.36	1.64	1.96	2.34	2.79	3.30	3.90	-
45	0.97	1.18	1.41	1.69	2.01	2.39	2.82	3.33	-
50	-	1.01	1.21	1.44	1.71	2.03	2.40	2.82	-
55	-	-	1.02	1.22	1.44	1.71	2.02	2.38	-
60	-	-	-	1.01	1.20	1.42	1.68	1.98	-

### Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	12 235	W
Power input	6 088	W
Current consumption	7.96	A
Mass flow	378	kg/h
C.O.P.	2.01	

### Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

### Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	6 426	8 664	11 506	15 028	19 308	24 423	-	-	-
30	5 192	7 180	9 668	12 734	16 456	20 910	26 174	32 327	-
35	4 566	6 425	8 732	11 566	15 004	19 123	24 002	29 717	-
40	3 934	5 661	7 785	10 384	13 535	17 317	21 807	27 082	-
45	3 297	4 888	6 826	9 187	12 050	15 492	19 590	24 423	-
50	2 654	4 108	5 856	7 977	10 548	13 647	17 351	21 737	-
55	-	3 319	4 875	6 753	9 029	11 782	15 089	19 027	-
60	-	-	3 883	5 514	7 494	9 898	12 805	16 292	-

**Power input in W**

20	3 720	4 201	4 636	5 032	5 394	5 730	-	-	-
30	3 880	4 471	5 003	5 480	5 909	6 297	6 648	6 971	-
35	3 937	4 602	5 199	5 734	6 215	6 646	7 035	7 386	-
40	3 958	4 708	5 383	5 989	6 533	7 020	7 457	7 849	-
45	3 928	4 775	5 539	6 228	6 846	7 401	7 899	8 345	-
50	3 831	4 786	5 653	6 435	7 141	7 776	8 345	8 856	-
55	-	4 728	5 707	6 596	7 401	8 127	8 781	9 369	-
60	-	-	5 688	6 695	7 611	8 440	9 190	9 867	-

**Current consumption in A**

20	5.16	5.69	6.15	6.56	6.89	7.16	-	-	-
30	5.38	6.05	6.66	7.20	7.69	8.10	8.44	8.70	-
35	5.45	6.20	6.89	7.53	8.10	8.60	9.03	9.38	-
40	5.47	6.32	7.10	7.83	8.50	9.10	9.63	10.08	-
45	5.43	6.38	7.27	8.11	8.88	9.59	10.22	10.79	-
50	5.32	6.38	7.38	8.33	9.22	10.04	10.80	11.48	-
55	-	6.29	7.42	8.49	9.50	10.45	11.34	12.15	-
60	-	-	7.36	8.57	9.72	10.81	11.83	12.78	-

**Mass flow in kg/h**

20	178	236	307	391	492	610	-	-	-
30	163	221	290	372	469	582	714	866	-
35	154	212	280	361	456	567	696	845	-
40	144	202	270	349	442	551	677	823	-
45	133	190	257	336	427	534	657	799	-
50	119	177	243	320	410	515	635	774	-
55	-	161	227	303	391	494	612	748	-
60	-	-	208	283	370	471	586	719	-

**Coefficient of performance (C.O.P.)**

20	1.73	2.06	2.48	2.99	3.58	4.26	-	-	-
30	1.34	1.61	1.93	2.32	2.78	3.32	3.94	4.64	-
35	1.16	1.40	1.68	2.02	2.41	2.88	3.41	4.02	-
40	0.99	1.20	1.45	1.73	2.07	2.47	2.92	3.45	-
45	0.84	1.02	1.23	1.48	1.76	2.09	2.48	2.93	-
50	0.69	0.86	1.04	1.24	1.48	1.76	2.08	2.45	-
55	-	0.70	0.85	1.02	1.22	1.45	1.72	2.03	-
60	-	-	0.68	0.82	0.98	1.17	1.39	1.65	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	12 050	W
Power input	6 846	W
Current consumption	8.88	A
Mass flow	427	kg/h
C.O.P.	1.76	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	7 036	9 468	12 548	16 358	20 979	26 492	-	-	-
30	5 779	7 971	10 706	14 066	18 135	22 994	28 723	35 405	-
35	5 137	7 206	9 764	12 897	16 686	21 214	26 562	32 814	-
40	4 485	6 429	8 810	11 712	15 219	19 414	24 380	30 200	-
45	3 822	5 640	7 841	10 512	13 736	17 597	22 180	27 567	-
50	-	4 838	6 860	9 298	12 238	15 766	19 966	24 922	-
55	-	-	5 866	8 074	10 732	13 929	17 749	22 278	-
60	-	-	-	6 845	9 229	12 101	15 552	19 667	-

**Power input in W**

20	3 720	4 201	4 636	5 032	5 394	5 730	-	-	-
30	3 880	4 471	5 003	5 480	5 909	6 297	6 648	6 971	-
35	3 937	4 602	5 199	5 734	6 215	6 646	7 035	7 386	-
40	3 958	4 708	5 383	5 989	6 533	7 020	7 457	7 849	-
45	3 928	4 775	5 539	6 228	6 846	7 401	7 899	8 345	-
50	-	4 786	5 653	6 435	7 141	7 776	8 345	8 856	-
55	-	-	5 707	6 596	7 401	8 127	8 781	9 369	-
60	-	-	-	6 695	7 611	8 440	9 190	9 867	-

**Current consumption in A**

20	5.16	5.69	6.15	6.56	6.89	7.16	-	-	-
30	5.38	6.05	6.66	7.20	7.69	8.10	8.44	8.70	-
35	5.45	6.20	6.89	7.53	8.10	8.60	9.03	9.38	-
40	5.47	6.32	7.10	7.83	8.50	9.10	9.63	10.08	-
45	5.43	6.38	7.27	8.11	8.88	9.59	10.22	10.79	-
50	-	6.38	7.38	8.33	9.22	10.04	10.80	11.48	-
55	-	-	7.42	8.49	9.50	10.45	11.34	12.15	-
60	-	-	-	8.57	9.72	10.81	11.83	12.78	-

**Mass flow in kg/h**

20	177	235	305	389	489	606	-	-	-
30	162	220	288	370	466	579	709	860	-
35	154	211	279	359	453	564	692	839	-
40	144	201	268	347	440	548	673	817	-
45	132	189	256	334	425	530	653	794	-
50	-	176	242	318	408	512	631	769	-
55	-	-	226	301	389	491	608	743	-
60	-	-	-	282	368	468	583	714	-

**Coefficient of performance (C.O.P.)**

20	1.89	2.25	2.71	3.25	3.89	4.62	-	-	-
30	1.49	1.78	2.14	2.57	3.07	3.65	4.32	5.08	-
35	1.30	1.57	1.88	2.25	2.68	3.19	3.78	4.44	-
40	1.13	1.37	1.64	1.96	2.33	2.77	3.27	3.85	-
45	0.97	1.18	1.42	1.69	2.01	2.38	2.81	3.30	-
50	-	1.01	1.21	1.44	1.71	2.03	2.39	2.81	-
55	-	-	1.03	1.22	1.45	1.71	2.02	2.38	-
60	-	-	-	1.02	1.21	1.43	1.69	1.99	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	13 736	W
Power input	6 846	W
Current consumption	8.88	A
Mass flow	425	kg/h
C.O.P.	2.01	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 55 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	7 048	9 522	12 655	16 526	21 217	26 808	-	-	-
30	5 717	7 924	10 679	14 062	18 154	23 036	28 788	35 490	-
35	5 031	7 100	9 661	12 795	16 582	21 104	26 440	32 673	-
40	4 332	6 259	8 623	11 504	14 984	19 142	24 060	29 818	-
45	3 621	5 402	7 566	10 191	13 359	17 151	21 646	26 927	-
50	2 897	4 530	6 489	8 855	11 709	15 130	19 201	24 000	-
55	-	3 643	5 395	7 498	10 033	13 081	16 723	21 038	-
60	-	-	4 282	6 119	8 333	11 004	14 213	18 041	-

**Power input in W**

20	4 113	4 652	5 140	5 584	5 993	6 374	-	-	-
30	4 299	4 970	5 571	6 111	6 598	7 040	7 446	7 823	-
35	4 357	5 112	5 790	6 397	6 942	7 434	7 881	8 290	-
40	4 369	5 223	5 989	6 676	7 293	7 847	8 347	8 801	-
45	4 320	5 284	6 152	6 932	7 632	8 262	8 828	9 339	-
50	4 192	5 279	6 262	7 147	7 945	8 662	9 308	9 890	-
55	-	5 193	6 302	7 307	8 214	9 032	9 769	10 435	-
60	-	-	6 258	7 393	8 423	9 355	10 197	10 958	-

**Current consumption in A**

20	5.68	6.29	6.83	7.28	7.67	7.97	-	-	-
30	5.89	6.66	7.36	7.98	8.53	9.00	9.40	9.72	-
35	5.96	6.82	7.62	8.34	8.98	9.55	10.05	10.47	-
40	5.97	6.94	7.84	8.67	9.42	10.10	10.71	11.24	-
45	5.91	7.00	8.02	8.96	9.83	10.63	11.35	12.00	-
50	5.76	6.98	8.12	9.19	10.19	11.12	11.97	12.76	-
55	-	6.86	8.14	9.35	10.49	11.56	12.55	13.47	-
60	-	-	8.06	9.42	10.70	11.92	13.07	14.14	-

**Mass flow in kg/h**

20	195	260	338	431	542	671	-	-	-
30	180	244	320	411	517	641	785	951	-
35	170	234	310	399	504	626	767	929	-
40	159	223	299	387	490	609	747	905	-
45	146	210	285	372	474	591	726	881	-
50	130	195	269	356	455	571	703	855	-
55	-	176	251	337	435	548	678	827	-
60	-	-	230	314	412	523	651	796	-

**Coefficient of performance (C.O.P.)**

20	1.71	2.05	2.46	2.96	3.54	4.21	-	-	-
30	1.33	1.59	1.92	2.30	2.75	3.27	3.87	4.54	-
35	1.15	1.39	1.67	2.00	2.39	2.84	3.36	3.94	-
40	0.99	1.20	1.44	1.72	2.05	2.44	2.88	3.39	-
45	0.84	1.02	1.23	1.47	1.75	2.08	2.45	2.88	-
50	0.69	0.86	1.04	1.24	1.47	1.75	2.06	2.43	-
55	-	0.70	0.86	1.03	1.22	1.45	1.71	2.02	-
60	-	-	0.68	0.83	0.99	1.18	1.39	1.65	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	13 359	W
Power input	7 632	W
Current consumption	9.83	A
Mass flow	474	kg/h
C.O.P.	1.75	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 55 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	7 718	10 405	13 801	17 989	23 054	29 079	-	-	-
30	6 364	8 797	11 825	15 533	20 007	25 331	31 591	38 870	-
35	5 661	7 963	10 803	14 267	18 441	23 410	29 261	36 077	-
40	4 939	7 108	9 758	12 975	16 847	21 460	26 899	33 250	-
45	4 197	6 233	8 691	11 660	15 228	19 481	24 508	30 394	-
50	-	5 335	7 602	10 322	13 585	17 480	22 095	27 516	-
55	-	-	6 492	8 965	11 926	15 465	19 671	24 633	-
60	-	-	-	7 596	10 262	13 454	17 262	21 778	-

**Power input in W**

20	4 113	4 652	5 140	5 584	5 993	6 374	-	-	-
30	4 299	4 970	5 571	6 111	6 598	7 040	7 446	7 823	-
35	4 357	5 112	5 790	6 397	6 942	7 434	7 881	8 290	-
40	4 369	5 223	5 989	6 676	7 293	7 847	8 347	8 801	-
45	4 320	5 284	6 152	6 932	7 632	8 262	8 828	9 339	-
50	-	5 279	6 262	7 147	7 945	8 662	9 308	9 890	-
55	-	-	6 302	7 307	8 214	9 032	9 769	10 435	-
60	-	-	-	7 393	8 423	9 355	10 197	10 958	-

**Current consumption in A**

20	5.68	6.29	6.83	7.28	7.67	7.97	-	-	-
30	5.89	6.66	7.36	7.98	8.53	9.00	9.40	9.72	-
35	5.96	6.82	7.62	8.34	8.98	9.55	10.05	10.47	-
40	5.97	6.94	7.84	8.67	9.42	10.10	10.71	11.24	-
45	5.91	7.00	8.02	8.96	9.83	10.63	11.35	12.00	-
50	-	6.98	8.12	9.19	10.19	11.12	11.97	12.76	-
55	-	-	8.14	9.35	10.49	11.56	12.55	13.47	-
60	-	-	-	9.42	10.70	11.92	13.07	14.14	-

**Mass flow in kg/h**

20	194	258	336	429	538	667	-	-	-
30	179	243	319	408	514	638	781	945	-
35	169	233	308	397	501	622	762	923	-
40	158	222	297	385	487	605	742	900	-
45	145	209	284	370	471	587	721	875	-
50	-	194	268	354	453	567	699	849	-
55	-	-	250	335	432	545	674	821	-
60	-	-	-	313	409	520	647	791	-

**Coefficient of performance (C.O.P.)**

20	1.88	2.24	2.69	3.22	3.85	4.56	-	-	-
30	1.48	1.77	2.12	2.54	3.03	3.60	4.24	4.97	-
35	1.30	1.56	1.87	2.23	2.66	3.15	3.71	4.35	-
40	1.13	1.36	1.63	1.94	2.31	2.73	3.22	3.78	-
45	0.97	1.18	1.41	1.68	2.00	2.36	2.78	3.25	-
50	-	1.01	1.21	1.44	1.71	2.02	2.37	2.78	-
55	-	-	1.03	1.23	1.45	1.71	2.01	2.36	-
60	-	-	-	1.03	1.22	1.44	1.69	1.99	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	15 228	W
Power input	7 632	W
Current consumption	9.83	A
Mass flow	471	kg/h
C.O.P.	2.00	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	7 668	10 393	13 830	18 060	23 164	29 221	-	-	-
30	6 225	8 663	11 695	15 403	19 866	25 165	31 383	38 599	-
35	5 474	7 763	10 587	14 027	18 164	23 079	28 853	35 567	-
40	4 704	6 840	9 452	12 621	16 429	20 955	26 282	32 490	-
45	3 916	5 894	8 291	11 186	14 660	18 794	23 670	29 368	-
50	3 110	4 928	7 105	9 721	12 858	16 597	21 017	26 202	-
55	-	3 941	5 894	8 228	11 024	14 363	18 325	22 992	-
60	-	-	4 660	6 708	9 159	12 094	15 594	19 740	-

**Power input in W**

20	4 521	5 123	5 665	6 157	6 610	7 034	-	-	-
30	4 728	5 485	6 163	6 770	7 319	7 818	8 279	8 710	-
35	4 782	5 636	6 401	7 087	7 703	8 261	8 769	9 239	-
40	4 780	5 745	6 610	7 387	8 084	8 713	9 283	9 805	-
45	4 704	5 793	6 773	7 654	8 446	9 159	9 804	10 390	-
50	4 538	5 764	6 872	7 870	8 770	9 582	10 314	10 979	-
55	-	5 642	6 890	8 020	9 041	9 963	10 798	11 554	-
60	-	-	6 810	8 084	9 240	10 287	11 236	12 098	-

**Current consumption in A**

20	6.21	6.92	7.53	8.06	8.50	8.86	-	-	-
30	6.42	7.30	8.10	8.81	9.43	9.97	10.44	10.83	-
35	6.47	7.46	8.37	9.18	9.91	10.56	11.13	11.64	-
40	6.46	7.58	8.60	9.53	10.38	11.15	11.84	12.46	-
45	6.38	7.62	8.77	9.83	10.81	11.71	12.54	13.29	-
50	6.19	7.57	8.87	10.07	11.19	12.23	13.20	14.09	-
55	-	7.42	8.86	10.22	11.49	12.69	13.81	14.85	-
60	-	-	8.74	10.27	11.70	13.06	14.34	15.56	-

**Mass flow in kg/h**

20	213	284	370	472	593	733	-	-	-
30	196	267	351	450	566	701	857	1 035	-
35	185	256	340	438	552	684	837	1 011	-
40	173	244	327	424	537	667	816	986	-
45	158	229	312	409	520	647	794	961	-
50	139	212	295	391	500	626	770	933	-
55	-	191	274	369	478	602	743	904	-
60	-	-	250	345	452	575	714	871	-

**Coefficient of performance (C.O.P.)**

20	1.70	2.03	2.44	2.93	3.50	4.15	-	-	-
30	1.32	1.58	1.90	2.27	2.71	3.22	3.79	4.43	-
35	1.14	1.38	1.65	1.98	2.36	2.79	3.29	3.85	-
40	0.98	1.19	1.43	1.71	2.03	2.41	2.83	3.31	-
45	0.83	1.02	1.22	1.46	1.74	2.05	2.41	2.83	-
50	0.69	0.85	1.03	1.24	1.47	1.73	2.04	2.39	-
55	-	0.70	0.86	1.03	1.22	1.44	1.70	1.99	-
60	-	-	0.68	0.83	0.99	1.18	1.39	1.63	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	14 660	W
Power input	8 446	W
Current consumption	10.81	A
Mass flow	520	kg/h
C.O.P.	1.74	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	8 396	11 357	15 083	19 659	25 169	31 697	-	-	-
30	6 929	9 617	12 950	17 014	21 893	27 673	34 439	42 275	-
35	6 159	8 706	11 838	15 641	20 200	25 602	31 931	39 273	-
40	5 362	7 768	10 696	14 235	18 472	23 493	29 383	36 229	-
45	4 538	6 800	9 524	12 798	16 710	21 348	26 799	33 149	-
50	-	5 804	8 322	11 331	14 919	19 174	24 185	30 040	-
55	-	-	7 092	9 838	13 104	16 980	21 556	26 921	-
60	-	-	-	8 327	11 280	14 787	18 939	23 828	-

**Power input in W**

20	4 521	5 123	5 665	6 157	6 610	7 034	-	-	-
30	4 728	5 485	6 163	6 770	7 319	7 818	8 279	8 710	-
35	4 782	5 636	6 401	7 087	7 703	8 261	8 769	9 239	-
40	4 780	5 745	6 610	7 387	8 084	8 713	9 283	9 805	-
45	4 704	5 793	6 773	7 654	8 446	9 159	9 804	10 390	-
50	-	5 764	6 872	7 870	8 770	9 582	10 314	10 979	-
55	-	-	6 890	8 020	9 041	9 963	10 798	11 554	-
60	-	-	-	8 084	9 240	10 287	11 236	12 098	-

**Current consumption in A**

20	6.21	6.92	7.53	8.06	8.50	8.86	-	-	-
30	6.42	7.30	8.10	8.81	9.43	9.97	10.44	10.83	-
35	6.47	7.46	8.37	9.18	9.91	10.56	11.13	11.64	-
40	6.46	7.58	8.60	9.53	10.38	11.15	11.84	12.46	-
45	6.38	7.62	8.77	9.83	10.81	11.71	12.54	13.29	-
50	-	7.57	8.87	10.07	11.19	12.23	13.20	14.09	-
55	-	-	8.86	10.22	11.49	12.69	13.81	14.85	-
60	-	-	-	10.27	11.70	13.06	14.34	15.56	-

**Mass flow in kg/h**

20	211	282	368	469	589	729	-	-	-
30	195	265	349	447	563	697	851	1 028	-
35	184	255	338	435	549	680	832	1 004	-
40	172	243	325	422	534	663	811	980	-
45	157	228	311	406	517	644	789	954	-
50	-	211	293	388	497	622	765	927	-
55	-	-	273	367	475	598	739	898	-
60	-	-	-	343	450	571	709	866	-

**Coefficient of performance (C.O.P.)**

20	1.86	2.22	2.66	3.19	3.81	4.51	-	-	-
30	1.47	1.75	2.10	2.51	2.99	3.54	4.16	4.85	-
35	1.29	1.54	1.85	2.21	2.62	3.10	3.64	4.25	-
40	1.12	1.35	1.62	1.93	2.28	2.70	3.17	3.70	-
45	0.96	1.17	1.41	1.67	1.98	2.33	2.73	3.19	-
50	-	1.01	1.21	1.44	1.70	2.00	2.34	2.74	-
55	-	-	1.03	1.23	1.45	1.70	2.00	2.33	-
60	-	-	-	1.03	1.22	1.44	1.69	1.97	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	16 710	W
Power input	8 446	W
Current consumption	10.81	A
Mass flow	517	kg/h
C.O.P.	1.98	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 65 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	8 284	11 277	15 034	19 631	25 148	31 662	-	-	-
30	6 716	9 397	12 718	16 756	21 591	27 299	33 960	41 652	-
35	5 895	8 414	11 511	15 264	19 751	25 051	31 241	38 401	-
40	5 050	7 403	10 272	13 735	17 871	22 758	28 474	35 098	-
45	4 182	6 365	9 002	12 172	15 953	20 423	25 661	31 745	-
50	3 292	5 301	7 702	10 575	13 996	18 046	22 801	28 341	-
55	-	4 211	6 373	8 944	12 003	15 628	19 897	24 888	-
60	-	-	5 015	7 281	9 973	13 169	16 948	21 388	-

**Power input in W**

20	4 945	5 613	6 211	6 752	7 248	7 709	-	-	-
30	5 170	6 018	6 777	7 458	8 072	8 631	9 148	9 633	-
35	5 214	6 174	7 033	7 803	8 497	9 125	9 700	10 234	-
40	5 190	6 274	7 247	8 121	8 908	9 619	10 266	10 861	-
45	5 081	6 302	7 403	8 394	9 287	10 094	10 827	11 497	-
50	4 868	6 242	7 483	8 604	9 617	10 534	11 365	12 125	-
55	-	6 074	7 470	8 735	9 881	10 921	11 865	12 726	-
60	-	-	7 347	8 769	10 062	11 238	12 309	13 285	-

**Current consumption in A**

20	6.75	7.56	8.27	8.87	9.38	9.81	-	-	-
30	6.95	7.96	8.87	9.67	10.37	11.00	11.54	12.03	-
35	6.99	8.12	9.14	10.06	10.88	11.62	12.29	12.89	-
40	6.95	8.22	9.37	10.42	11.38	12.24	13.04	13.76	-
45	6.83	8.24	9.54	10.73	11.83	12.84	13.77	14.64	-
50	6.59	8.16	9.62	10.96	12.22	13.38	14.47	15.49	-
55	-	7.96	9.58	11.10	12.52	13.85	15.11	16.29	-
60	-	-	9.42	11.12	12.72	14.23	15.66	17.03	-

**Mass flow in kg/h**

20	230	308	402	514	645	797	-	-	-
30	211	289	381	490	616	761	928	1 117	-
35	200	278	369	476	600	743	906	1 092	-
40	186	264	356	462	584	724	884	1 065	-
45	168	248	339	445	565	704	861	1 038	-
50	147	228	320	425	545	681	835	1 009	-
55	-	204	297	402	520	655	807	978	-
60	-	-	269	374	492	626	776	944	-

**Coefficient of performance (C.O.P.)**

20	1.68	2.01	2.42	2.91	3.47	4.11	-	-	-
30	1.30	1.56	1.88	2.25	2.67	3.16	3.71	4.32	-
35	1.13	1.36	1.64	1.96	2.32	2.75	3.22	3.75	-
40	0.97	1.18	1.42	1.69	2.01	2.37	2.77	3.23	-
45	0.82	1.01	1.22	1.45	1.72	2.02	2.37	2.76	-
50	0.68	0.85	1.03	1.23	1.46	1.71	2.01	2.34	-
55	-	0.69	0.85	1.02	1.21	1.43	1.68	1.96	-
60	-	-	0.68	0.83	0.99	1.17	1.38	1.61	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	15 953	W
Power input	9 287	W
Current consumption	11.83	A
Mass flow	565	kg/h
C.O.P.	1.72	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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# Datasheet, performance data

# Inverter reciprocating compressors VTZ171-G

## Performance data at 65 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

## R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

### Cooling capacity in W

20	9 071	12 323	16 395	21 369	27 325	34 345	-	-	-
30	7 476	10 432	14 082	18 509	23 794	30 020	37 268	45 619	-
35	6 633	9 437	12 871	17 020	21 965	27 789	34 574	42 402	-
40	5 757	8 407	11 624	15 492	20 094	25 514	31 834	39 138	-
45	4 847	7 343	10 341	13 926	18 184	23 199	29 053	35 831	-
50	-	6 243	9 022	12 326	16 240	20 849	26 238	32 493	-
55	-	-	7 669	10 694	14 267	18 475	23 405	29 141	-
60	-	-	-	9 039	12 282	16 101	20 584	25 818	-

### Power input in W

20	4 945	5 613	6 211	6 752	7 248	7 709	-	-	-
30	5 170	6 018	6 777	7 458	8 072	8 631	9 148	9 633	-
35	5 214	6 174	7 033	7 803	8 497	9 125	9 700	10 234	-
40	5 190	6 274	7 247	8 121	8 908	9 619	10 266	10 861	-
45	5 081	6 302	7 403	8 394	9 287	10 094	10 827	11 497	-
50	-	6 242	7 483	8 604	9 617	10 534	11 365	12 125	-
55	-	-	7 470	8 735	9 881	10 921	11 865	12 726	-
60	-	-	-	8 769	10 062	11 238	12 309	13 285	-

### Current consumption in A

20	6.75	7.56	8.27	8.87	9.38	9.81	-	-	-
30	6.95	7.96	8.87	9.67	10.37	11.00	11.54	12.03	-
35	6.99	8.12	9.14	10.06	10.88	11.62	12.29	12.89	-
40	6.95	8.22	9.37	10.42	11.38	12.24	13.04	13.76	-
45	6.83	8.24	9.54	10.73	11.83	12.84	13.77	14.64	-
50	-	8.16	9.62	10.96	12.22	13.38	14.47	15.49	-
55	-	-	9.58	11.10	12.52	13.85	15.11	16.29	-
60	-	-	-	11.12	12.72	14.23	15.66	17.03	-

### Mass flow in kg/h

20	229	306	400	511	641	792	-	-	-
30	210	288	379	487	612	756	922	1 110	-
35	199	276	367	474	597	738	900	1 084	-
40	185	263	354	459	580	720	878	1 058	-
45	167	246	337	442	562	699	855	1 031	-
50	-	227	318	422	541	677	830	1 003	-
55	-	-	295	399	517	651	802	972	-
60	-	-	-	372	489	622	771	938	-

### Coefficient of performance (C.O.P.)

20	1.83	2.20	2.64	3.16	3.77	4.46	-	-	-
30	1.45	1.73	2.08	2.48	2.95	3.48	4.07	4.74	-
35	1.27	1.53	1.83	2.18	2.59	3.05	3.56	4.14	-
40	1.11	1.34	1.60	1.91	2.26	2.65	3.10	3.60	-
45	0.95	1.17	1.40	1.66	1.96	2.30	2.68	3.12	-
50	-	1.00	1.21	1.43	1.69	1.98	2.31	2.68	-
55	-	-	1.03	1.22	1.44	1.69	1.97	2.29	-
60	-	-	-	1.03	1.22	1.43	1.67	1.94	-

### Nominal performance at to = -10 °C, tc = 45 °C

Cooling capacity	18 184	W
Power input	9 287	W
Current consumption	11.83	A
Mass flow	562	kg/h
C.O.P.	1.96	

### Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

### Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 70 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	8 896	12 174	16 264	21 238	27 170	34 131	-	-	-
30	7 190	10 126	13 746	18 123	23 329	29 437	36 520	44 650	-
35	6 294	9 053	12 432	16 504	21 341	27 017	33 604	41 174	-
40	5 371	7 948	11 083	14 846	19 311	24 550	30 637	37 643	-
45	4 420	6 813	9 699	13 150	17 238	22 037	27 619	34 057	-
50	3 444	5 649	8 281	11 416	15 124	19 479	24 553	30 419	-
55	-	4 455	6 831	9 645	12 969	16 875	21 437	26 728	-
60	-	-	5 349	7 839	10 774	14 229	18 275	22 985	-

**Power input in W**

20	5 386	6 122	6 779	7 368	7 904	8 400	-	-	-
30	5 622	6 569	7 415	8 173	8 857	9 479	10 052	10 591	-
35	5 652	6 724	7 685	8 547	9 324	10 029	10 675	11 275	-
40	5 600	6 811	7 899	8 879	9 762	10 563	11 295	11 970	-
45	5 450	6 812	8 042	9 152	10 155	11 065	11 896	12 660	-
50	5 184	6 711	8 095	9 349	10 485	11 518	12 461	13 326	-
55	-	6 491	8 042	9 453	10 736	11 904	12 972	13 952	-
60	-	-	7 866	9 447	10 889	12 207	13 414	14 521	-

**Current consumption in A**

20	7.30	8.23	9.04	9.73	10.32	10.83	-	-	-
30	7.49	8.64	9.66	10.57	11.37	12.08	12.72	13.31	-
35	7.51	8.79	9.94	10.97	11.90	12.74	13.50	14.21	-
40	7.44	8.88	10.17	11.34	12.41	13.39	14.29	15.14	-
45	7.28	8.87	10.32	11.65	12.87	14.00	15.06	16.06	-
50	6.98	8.75	10.37	11.87	13.27	14.56	15.79	16.95	-
55	-	8.49	10.30	11.99	13.56	15.04	16.45	17.79	-
60	-	-	10.08	11.97	13.74	15.42	17.02	18.55	-

**Mass flow in kg/h**

20	247	333	436	557	698	861	-	-	-
30	226	311	412	529	665	821	998	1 198	-
35	213	299	399	515	649	801	975	1 170	-
40	197	284	384	499	631	781	951	1 142	-
45	178	265	366	480	611	759	926	1 114	-
50	154	243	344	459	588	735	899	1 083	-
55	-	216	318	433	562	707	870	1 051	-
60	-	-	287	403	532	676	836	1 015	-

**Coefficient of performance (C.O.P.)**

20	1.65	1.99	2.40	2.88	3.44	4.06	-	-	-
30	1.28	1.54	1.85	2.22	2.63	3.11	3.63	4.22	-
35	1.11	1.35	1.62	1.93	2.29	2.69	3.15	3.65	-
40	0.96	1.17	1.40	1.67	1.98	2.32	2.71	3.14	-
45	0.81	1.00	1.21	1.44	1.70	1.99	2.32	2.69	-
50	0.66	0.84	1.02	1.22	1.44	1.69	1.97	2.28	-
55	-	0.69	0.85	1.02	1.21	1.42	1.65	1.92	-
60	-	-	0.68	0.83	0.99	1.17	1.36	1.58	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	17 238	W
Power input	10 155	W
Current consumption	12.87	A
Mass flow	611	kg/h
C.O.P.	1.70	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 70 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	9 741	13 303	17 737	23 118	29 522	37 023	-	-	-
30	8 004	11 242	15 221	20 018	25 710	32 371	40 077	48 903	-
35	7 082	10 154	13 902	18 403	23 734	29 970	37 189	45 464	-
40	6 123	9 027	12 542	16 745	21 713	27 523	34 252	41 975	-
45	5 124	7 861	11 142	15 045	19 649	25 032	31 271	38 442	-
50	-	6 652	9 701	13 306	17 548	22 504	28 253	34 875	-
55	-	-	8 220	11 532	15 415	19 950	25 217	31 294	-
60	-	-	-	9 731	13 269	17 396	22 195	27 746	-

**Power input in W**

20	5 386	6 122	6 779	7 368	7 904	8 400	-	-	-
30	5 622	6 569	7 415	8 173	8 857	9 479	10 052	10 591	-
35	5 652	6 724	7 685	8 547	9 324	10 029	10 675	11 275	-
40	5 600	6 811	7 899	8 879	9 762	10 563	11 295	11 970	-
45	5 450	6 812	8 042	9 152	10 155	11 065	11 896	12 660	-
50	-	6 711	8 095	9 349	10 485	11 518	12 461	13 326	-
55	-	-	8 042	9 453	10 736	11 904	12 972	13 952	-
60	-	-	-	9 447	10 889	12 207	13 414	14 521	-

**Current consumption in A**

20	7.30	8.23	9.04	9.73	10.32	10.83	-	-	-
30	7.49	8.64	9.66	10.57	11.37	12.08	12.72	13.31	-
35	7.51	8.79	9.94	10.97	11.90	12.74	13.50	14.21	-
40	7.44	8.88	10.17	11.34	12.41	13.39	14.29	15.14	-
45	7.28	8.87	10.32	11.65	12.87	14.00	15.06	16.06	-
50	-	8.75	10.37	11.87	13.27	14.56	15.79	16.95	-
55	-	-	10.30	11.99	13.56	15.04	16.45	17.79	-
60	-	-	-	11.97	13.74	15.42	17.02	18.55	-

**Mass flow in kg/h**

20	246	331	433	554	694	856	-	-	-
30	225	310	410	526	661	816	992	1 191	-
35	212	297	397	512	645	797	969	1 163	-
40	196	282	381	496	627	776	945	1 135	-
45	177	264	364	478	607	755	920	1 106	-
50	-	242	342	456	585	730	894	1 076	-
55	-	-	316	431	559	703	864	1 044	-
60	-	-	-	400	529	672	831	1 008	-

**Coefficient of performance (C.O.P.)**

20	1.81	2.17	2.62	3.14	3.73	4.41	-	-	-
30	1.42	1.71	2.05	2.45	2.90	3.42	3.99	4.62	-
35	1.25	1.51	1.81	2.15	2.55	2.99	3.48	4.03	-
40	1.09	1.33	1.59	1.89	2.22	2.61	3.03	3.51	-
45	0.94	1.15	1.39	1.64	1.93	2.26	2.63	3.04	-
50	-	0.99	1.20	1.42	1.67	1.95	2.27	2.62	-
55	-	-	1.02	1.22	1.44	1.68	1.94	2.24	-
60	-	-	-	1.03	1.22	1.43	1.65	1.91	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	19 649	W
Power input	10 155	W
Current consumption	12.87	A
Mass flow	607	kg/h
C.O.P.	1.93	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 75 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	9 506	13 085	17 522	22 882	29 229	36 628	-	-	-
30	7 648	10 850	14 780	19 502	25 080	31 579	39 062	47 593	-
35	6 672	9 680	13 351	17 749	22 937	28 979	35 941	43 886	-
40	5 666	8 477	11 885	15 954	20 748	26 332	32 769	40 124	-
45	4 630	7 240	10 382	14 119	18 516	23 636	29 545	36 306	-
50	3 567	5 972	8 843	12 244	16 240	20 894	26 271	32 434	-
55	-	4 672	7 269	10 331	13 922	18 106	22 947	28 509	-
60	-	-	5 662	8 381	11 563	15 273	19 574	24 532	-

**Power input in W**

20	5 842	6 651	7 368	8 006	8 581	9 107	-	-	-
30	6 085	7 137	8 076	8 917	9 673	10 360	10 992	11 583	-
35	6 096	7 288	8 357	9 317	10 184	10 970	11 691	12 362	-
40	6 010	7 355	8 567	9 660	10 648	11 547	12 370	13 132	-
45	5 811	7 322	8 689	9 927	11 051	12 074	13 012	13 878	-
50	5 484	7 173	8 708	10 104	11 375	12 535	13 600	14 583	-
55	-	6 891	8 607	10 173	11 604	12 914	14 119	15 231	-
60	-	-	8 369	10 118	11 722	13 195	14 551	15 806	-

**Current consumption in A**

20	7.85	8.93	9.85	10.64	11.32	11.92	-	-	-
30	8.03	9.34	10.49	11.51	12.41	13.22	13.97	14.68	-
35	8.03	9.48	10.77	11.92	12.96	13.91	14.79	15.62	-
40	7.93	9.54	10.99	12.29	13.48	14.58	15.60	16.58	-
45	7.71	9.50	11.12	12.59	13.95	15.21	16.40	17.54	-
50	7.35	9.33	11.14	12.80	14.34	15.78	17.15	18.47	-
55	-	9.00	11.02	12.88	14.63	16.27	17.83	19.34	-
60	-	-	10.74	12.82	14.78	16.64	18.42	20.13	-

**Mass flow in kg/h**

20	265	358	470	601	753	927	-	-	-
30	241	334	443	570	716	881	1 069	1 278	-
35	226	319	428	554	697	860	1 043	1 247	-
40	208	302	411	536	678	838	1 017	1 217	-
45	186	282	391	516	656	814	991	1 187	-
50	159	257	368	492	632	788	962	1 155	-
55	-	226	339	464	604	759	931	1 121	-
60	-	-	304	430	570	725	896	1 083	-

**Coefficient of performance (C.O.P.)**

20	1.63	1.97	2.38	2.86	3.41	4.02	-	-	-
30	1.26	1.52	1.83	2.19	2.59	3.05	3.55	4.11	-
35	1.09	1.33	1.60	1.90	2.25	2.64	3.07	3.55	-
40	0.94	1.15	1.39	1.65	1.95	2.28	2.65	3.06	-
45	0.80	0.99	1.19	1.42	1.68	1.96	2.27	2.62	-
50	0.65	0.83	1.02	1.21	1.43	1.67	1.93	2.22	-
55	-	0.68	0.84	1.02	1.20	1.40	1.63	1.87	-
60	-	-	0.68	0.83	0.99	1.16	1.35	1.55	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	18 516	W
Power input	11 051	W
Current consumption	13.95	A
Mass flow	656	kg/h
C.O.P.	1.68	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 75 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	10 409	14 298	19 109	24 908	31 760	39 731	-	-	-
30	8 514	12 045	16 366	21 542	27 640	34 726	42 866	52 126	-
35	7 507	10 857	14 929	19 791	25 508	32 147	39 775	48 459	-
40	6 459	9 627	13 450	17 994	23 329	29 520	36 635	44 742	-
45	5 367	8 353	11 926	16 154	21 106	26 849	33 451	40 980	-
50	-	7 033	10 359	14 272	18 843	24 139	30 231	37 186	-
55	-	-	8 747	12 353	16 548	21 405	26 992	33 381	-
60	-	-	-	10 403	14 240	18 673	23 773	29 613	-

**Power input in W**

20	5 842	6 651	7 368	8 006	8 581	9 107	-	-	-
30	6 085	7 137	8 076	8 917	9 673	10 360	10 992	11 583	-
35	6 096	7 288	8 357	9 317	10 184	10 970	11 691	12 362	-
40	6 010	7 355	8 567	9 660	10 648	11 547	12 370	13 132	-
45	5 811	7 322	8 689	9 927	11 051	12 074	13 012	13 878	-
50	-	7 173	8 708	10 104	11 375	12 535	13 600	14 583	-
55	-	-	8 607	10 173	11 604	12 914	14 119	15 231	-
60	-	-	-	10 118	11 722	13 195	14 551	15 806	-

**Current consumption in A**

20	7.85	8.93	9.85	10.64	11.32	11.92	-	-	-
30	8.03	9.34	10.49	11.51	12.41	13.22	13.97	14.68	-
35	8.03	9.48	10.77	11.92	12.96	13.91	14.79	15.62	-
40	7.93	9.54	10.99	12.29	13.48	14.58	15.60	16.58	-
45	7.71	9.50	11.12	12.59	13.95	15.21	16.40	17.54	-
50	-	9.33	11.14	12.80	14.34	15.78	17.15	18.47	-
55	-	-	11.02	12.88	14.63	16.27	17.83	19.34	-
60	-	-	-	12.82	14.78	16.64	18.42	20.13	-

**Mass flow in kg/h**

20	263	356	467	598	749	921	-	-	-
30	240	332	440	566	711	876	1 062	1 270	-
35	225	318	426	550	693	855	1 036	1 239	-
40	207	301	409	533	674	833	1 011	1 209	-
45	185	280	389	513	652	809	984	1 179	-
50	-	256	365	489	628	784	956	1 147	-
55	-	-	337	461	600	754	925	1 114	-
60	-	-	-	428	567	721	890	1 076	-

**Coefficient of performance (C.O.P.)**

20	1.78	2.15	2.59	3.11	3.70	4.36	-	-	-
30	1.40	1.69	2.03	2.42	2.86	3.35	3.90	4.50	-
35	1.23	1.49	1.79	2.12	2.50	2.93	3.40	3.92	-
40	1.07	1.31	1.57	1.86	2.19	2.56	2.96	3.41	-
45	0.92	1.14	1.37	1.63	1.91	2.22	2.57	2.95	-
50	-	0.98	1.19	1.41	1.66	1.93	2.22	2.55	-
55	-	-	1.02	1.21	1.43	1.66	1.91	2.19	-
60	-	-	-	1.03	1.21	1.42	1.63	1.87	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	21 106	W
Power input	11 051	W
Current consumption	13.95	A
Mass flow	652	kg/h
C.O.P.	1.91	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 80 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	10 112	14 008	18 807	24 562	31 327	39 153	-	-	-
30	8 089	11 569	15 820	20 895	26 845	33 724	41 585	50 481	-
35	7 028	10 296	14 268	18 997	24 536	30 937	38 253	46 538	-
40	5 936	8 988	12 678	17 059	22 182	28 102	34 871	42 541	-
45	4 812	7 646	11 051	15 080	19 785	25 221	31 438	38 491	-
50	3 659	6 270	9 387	13 061	17 345	22 293	27 956	34 388	-
55	-	4 862	7 687	11 003	14 863	19 319	24 425	30 234	-
60	-	-	5 952	8 907	12 339	16 301	20 847	26 028	-

**Power input in W**

20	6 315	7 200	7 978	8 665	9 277	9 829	-	-	-
30	6 560	7 723	8 760	9 688	10 522	11 277	11 968	12 611	-
35	6 546	7 865	9 049	10 115	11 077	11 950	12 751	13 494	-
40	6 419	7 906	9 250	10 464	11 566	12 570	13 492	14 346	-
45	6 166	7 832	9 346	10 721	11 974	13 120	14 174	15 152	-
50	5 769	7 627	9 322	10 870	12 286	13 586	14 784	15 897	-
55	-	7 275	9 164	10 896	12 486	13 951	15 305	16 564	-
60	-	-	8 855	10 783	12 559	14 200	15 722	17 138	-

**Current consumption in A**

20	8.42	9.64	10.68	11.58	12.37	13.08	-	-	-
30	8.59	10.06	11.35	12.48	13.50	14.43	15.30	16.14	-
35	8.56	10.18	11.62	12.90	14.06	15.13	16.13	17.11	-
40	8.42	10.22	11.82	13.27	14.59	15.82	16.98	18.10	-
45	8.14	10.13	11.93	13.56	15.06	16.46	17.79	19.09	-
50	7.70	9.90	11.90	13.74	15.44	17.04	18.56	20.05	-
55	-	9.50	11.73	13.79	15.71	17.52	19.26	20.95	-
60	-	-	11.38	13.68	15.84	17.88	19.85	21.77	-

**Mass flow in kg/h**

20	282	384	505	647	809	994	-	-	-
30	255	355	474	610	766	942	1 138	1 357	-
35	238	340	457	592	746	918	1 110	1 323	-
40	218	321	439	573	725	894	1 082	1 290	-
45	194	298	417	551	701	869	1 054	1 258	-
50	163	270	390	525	675	841	1 024	1 225	-
55	-	236	358	494	644	810	991	1 189	-
60	-	-	319	457	608	774	954	1 150	-

**Coefficient of performance (C.O.P.)**

20	1.60	1.95	2.36	2.83	3.38	3.98	-	-	-
30	1.23	1.50	1.81	2.16	2.55	2.99	3.47	4.00	-
35	1.07	1.31	1.58	1.88	2.22	2.59	3.00	3.45	-
40	0.92	1.14	1.37	1.63	1.92	2.24	2.58	2.97	-
45	0.78	0.98	1.18	1.41	1.65	1.92	2.22	2.54	-
50	0.63	0.82	1.01	1.20	1.41	1.64	1.89	2.16	-
55	-	0.67	0.84	1.01	1.19	1.38	1.60	1.83	-
60	-	-	0.67	0.83	0.98	1.15	1.33	1.52	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	19 785	W
Power input	11 974	W
Current consumption	15.06	A
Mass flow	701	kg/h
C.O.P.	1.65	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 80 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	11 073	15 307	20 510	26 737	34 039	42 470	-	-	-
30	9 004	12 844	17 518	23 080	29 585	37 085	45 635	55 288	-
35	7 908	11 548	15 955	21 183	27 286	34 319	42 334	51 387	-
40	6 767	10 208	14 347	19 240	24 941	31 505	38 986	47 438	-
45	5 578	8 821	12 695	17 253	22 553	28 648	35 594	43 446	-
50	-	7 385	10 996	15 224	20 125	25 755	32 170	39 426	-
55	-	-	9 250	13 156	17 666	22 839	28 732	35 400	-
60	-	-	-	11 056	15 196	19 930	25 319	31 420	-

**Power input in W**

20	6 315	7 200	7 978	8 665	9 277	9 829	-	-	-
30	6 560	7 723	8 760	9 688	10 522	11 277	11 968	12 611	-
35	6 546	7 865	9 049	10 115	11 077	11 950	12 751	13 494	-
40	6 419	7 906	9 250	10 464	11 566	12 570	13 492	14 346	-
45	6 166	7 832	9 346	10 721	11 974	13 120	14 174	15 152	-
50	-	7 627	9 322	10 870	12 286	13 586	14 784	15 897	-
55	-	-	9 164	10 896	12 486	13 951	15 305	16 564	-
60	-	-	-	10 783	12 559	14 200	15 722	17 138	-

**Current consumption in A**

20	8.42	9.64	10.68	11.58	12.37	13.08	-	-	-
30	8.59	10.06	11.35	12.48	13.50	14.43	15.30	16.14	-
35	8.56	10.18	11.62	12.90	14.06	15.13	16.13	17.11	-
40	8.42	10.22	11.82	13.27	14.59	15.82	16.98	18.10	-
45	8.14	10.13	11.93	13.56	15.06	16.46	17.79	19.09	-
50	-	9.90	11.90	13.74	15.44	17.04	18.56	20.05	-
55	-	-	11.73	13.79	15.71	17.52	19.26	20.95	-
60	-	-	-	13.68	15.84	17.88	19.85	21.77	-

**Mass flow in kg/h**

20	280	381	502	643	805	988	-	-	-
30	253	354	471	607	762	936	1 131	1 348	-
35	237	338	455	589	741	912	1 103	1 314	-
40	217	319	436	570	720	889	1 076	1 282	-
45	193	296	414	548	697	864	1 047	1 250	-
50	-	268	388	522	671	836	1 018	1 217	-
55	-	-	356	491	641	805	985	1 181	-
60	-	-	-	455	605	769	948	1 142	-

**Coefficient of performance (C.O.P.)**

20	1.75	2.13	2.57	3.09	3.67	4.32	-	-	-
30	1.37	1.66	2.00	2.38	2.81	3.29	3.81	4.38	-
35	1.21	1.47	1.76	2.09	2.46	2.87	3.32	3.81	-
40	1.05	1.29	1.55	1.84	2.16	2.51	2.89	3.31	-
45	0.90	1.13	1.36	1.61	1.88	2.18	2.51	2.87	-
50	-	0.97	1.18	1.40	1.64	1.90	2.18	2.48	-
55	-	-	1.01	1.21	1.41	1.64	1.88	2.14	-
60	-	-	-	1.03	1.21	1.40	1.61	1.83	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	22 553	W
Power input	11 974	W
Current consumption	15.06	A
Mass flow	697	kg/h
C.O.P.	1.88	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 85 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	10 715	14 945	20 120	26 279	33 461	41 705	-	-	-
30	8 512	12 283	16 866	22 300	28 623	35 874	44 091	53 313	-
35	7 362	10 900	15 183	20 250	26 140	32 890	40 540	49 129	-
40	6 180	9 482	13 462	18 160	23 614	29 862	36 943	44 895	-
45	4 966	8 030	11 705	16 032	21 047	26 790	33 299	40 612	-
50	3 721	6 544	9 913	13 865	18 439	23 674	29 609	36 281	-
55	-	5 026	8 084	11 660	15 791	20 516	25 873	31 901	-
60	-	-	6 221	9 417	13 102	17 314	22 092	27 474	-

**Power input in W**

20	6 804	7 767	8 609	9 346	9 993	10 567	-	-	-
30	7 046	8 326	9 468	10 488	11 403	12 228	12 980	13 674	-
35	7 002	8 455	9 762	10 939	12 003	12 969	13 854	14 673	-
40	6 828	8 465	9 948	11 292	12 515	13 632	14 660	15 614	-
45	6 512	8 342	10 011	11 533	12 925	14 203	15 384	16 483	-
50	6 039	8 073	9 937	11 647	13 219	14 668	16 012	17 266	-
55	-	7 643	9 713	11 621	13 382	15 013	16 530	17 949	-
60	-	-	9 325	11 440	13 401	15 224	16 925	18 519	-

**Current consumption in A**

20	9.00	10.38	11.56	12.58	13.48	14.31	-	-	-
30	9.15	10.80	12.23	13.50	14.64	15.69	16.69	17.69	-
35	9.09	10.90	12.50	13.92	15.21	16.41	17.55	18.68	-
40	8.90	10.90	12.68	14.28	15.74	17.10	18.41	19.69	-
45	8.56	10.76	12.75	14.55	16.20	17.75	19.24	20.71	-
50	8.03	10.47	12.68	14.70	16.57	18.33	20.02	21.69	-
55	-	9.98	12.44	14.70	16.81	18.80	20.73	22.62	-
60	-	-	12.01	14.54	16.90	19.15	21.33	23.46	-

**Mass flow in kg/h**

20	299	409	541	693	867	1 062	-	-	-
30	268	377	505	651	817	1 003	1 208	1 433	-
35	250	359	486	631	795	976	1 177	1 396	-
40	227	338	466	610	771	950	1 147	1 361	-
45	200	313	441	586	746	923	1 116	1 327	-
50	166	282	412	557	718	893	1 085	1 292	-
55	-	243	377	524	685	860	1 050	1 255	-
60	-	-	334	483	646	821	1 011	1 214	-

**Coefficient of performance (C.O.P.)**

20	1.57	1.92	2.34	2.81	3.35	3.95	-	-	-
30	1.21	1.48	1.78	2.13	2.51	2.93	3.40	3.90	-
35	1.05	1.29	1.56	1.85	2.18	2.54	2.93	3.35	-
40	0.90	1.12	1.35	1.61	1.89	2.19	2.52	2.88	-
45	0.76	0.96	1.17	1.39	1.63	1.89	2.16	2.46	-
50	0.62	0.81	1.00	1.19	1.39	1.61	1.85	2.10	-
55	-	0.66	0.83	1.00	1.18	1.37	1.57	1.78	-
60	-	-	0.67	0.82	0.98	1.14	1.31	1.48	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	21 047	W
Power input	12 925	W
Current consumption	16.20	A
Mass flow	746	kg/h
C.O.P.	1.63	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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**Performance data at 85 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	11 733	16 330	21 942	28 605	36 358	45 238	-	-	-
30	9 476	13 636	18 676	24 633	31 544	39 449	48 385	58 390	-
35	8 283	12 225	16 977	22 580	29 070	36 485	44 865	54 248	-
40	7 045	10 768	15 235	20 483	26 551	33 478	41 302	50 062	-
45	5 756	9 264	13 447	18 343	23 991	30 431	37 701	45 841	-
50	-	7 707	11 612	16 161	21 394	27 351	34 072	41 595	-
55	-	-	9 728	13 941	18 769	24 254	30 434	37 352	-
60	-	-	-	11 690	16 136	21 169	26 831	33 165	-

**Power input in W**

20	6 804	7 767	8 609	9 346	9 993	10 567	-	-	-
30	7 046	8 326	9 468	10 488	11 403	12 228	12 980	13 674	-
35	7 002	8 455	9 762	10 939	12 003	12 969	13 854	14 673	-
40	6 828	8 465	9 948	11 292	12 515	13 632	14 660	15 614	-
45	6 512	8 342	10 011	11 533	12 925	14 203	15 384	16 483	-
50	-	8 073	9 937	11 647	13 219	14 668	16 012	17 266	-
55	-	-	9 713	11 621	13 382	15 013	16 530	17 949	-
60	-	-	-	11 440	13 401	15 224	16 925	18 519	-

**Current consumption in A**

20	9.00	10.38	11.56	12.58	13.48	14.31	-	-	-
30	9.15	10.80	12.23	13.50	14.64	15.69	16.69	17.69	-
35	9.09	10.90	12.50	13.92	15.21	16.41	17.55	18.68	-
40	8.90	10.90	12.68	14.28	15.74	17.10	18.41	19.69	-
45	8.56	10.76	12.75	14.55	16.20	17.75	19.24	20.71	-
50	-	10.47	12.68	14.70	16.57	18.33	20.02	21.69	-
55	-	-	12.44	14.70	16.81	18.80	20.73	22.62	-
60	-	-	-	14.54	16.90	19.15	21.33	23.46	-

**Mass flow in kg/h**

20	297	407	538	689	862	1 056	-	-	-
30	267	375	502	648	812	997	1 200	1 424	-
35	248	357	484	628	790	970	1 169	1 387	-
40	226	336	463	606	767	944	1 139	1 353	-
45	199	311	439	582	742	917	1 109	1 318	-
50	-	280	410	554	713	888	1 078	1 283	-
55	-	-	375	521	681	855	1 043	1 246	-
60	-	-	-	480	642	816	1 004	1 206	-

**Coefficient of performance (C.O.P.)**

20	1.72	2.10	2.55	3.06	3.64	4.28	-	-	-
30	1.34	1.64	1.97	2.35	2.77	3.23	3.73	4.27	-
35	1.18	1.45	1.74	2.06	2.42	2.81	3.24	3.70	-
40	1.03	1.27	1.53	1.81	2.12	2.46	2.82	3.21	-
45	0.88	1.11	1.34	1.59	1.86	2.14	2.45	2.78	-
50	-	0.95	1.17	1.39	1.62	1.86	2.13	2.41	-
55	-	-	1.00	1.20	1.40	1.62	1.84	2.08	-
60	-	-	-	1.02	1.20	1.39	1.59	1.79	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	23 991	W
Power input	12 925	W
Current consumption	16.20	A
Mass flow	742	kg/h
C.O.P.	1.86	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 90 Hz, EN 12900 rating conditions, Superheat = 10 K**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	11 315	15 894	21 459	28 032	35 634	44 285	-	-	-
30	8 919	12 992	17 918	23 718	30 414	38 027	46 579	56 090	-
35	7 674	11 491	16 095	21 507	27 747	34 839	42 802	51 659	-
40	6 398	9 958	14 238	19 259	25 043	31 611	38 985	47 185	-
45	5 091	8 392	12 346	16 976	22 301	28 345	35 127	42 669	-
50	3 753	6 793	10 420	14 656	19 522	25 039	31 228	38 111	-
55	-	5 162	8 461	12 302	16 706	21 695	27 289	33 511	-
60	-	-	6 468	9 912	13 853	18 312	23 310	28 869	-

**Power input in W**

20	7 309	8 355	9 262	10 047	10 728	11 320	-	-	-
30	7 544	8 946	10 198	11 316	12 315	13 213	14 027	14 772	-
35	7 464	9 058	10 495	11 791	12 962	14 026	14 999	15 897	-
40	7 237	9 031	10 661	12 144	13 496	14 734	15 874	16 933	-
45	6 851	8 853	10 685	12 362	13 903	15 323	16 640	17 869	-
50	6 294	8 512	10 553	12 435	14 173	15 784	17 284	18 691	-
55	-	7 995	10 255	12 349	14 292	16 102	17 795	19 388	-
60	-	-	9 778	12 092	14 249	16 266	18 161	19 948	-

**Current consumption in A**

20	9.58	11.13	12.46	13.61	14.64	15.60	-	-	-
30	9.72	11.56	13.15	14.56	15.83	17.01	18.16	19.32	-
35	9.63	11.64	13.40	14.97	16.40	17.73	19.03	20.33	-
40	9.38	11.59	13.56	15.32	16.92	18.43	19.90	21.36	-
45	8.96	11.40	13.58	15.56	17.37	19.08	20.74	22.39	-
50	8.34	11.03	13.45	15.67	17.72	19.65	21.53	23.39	-
55	-	10.45	13.15	15.62	17.93	20.12	22.24	24.34	-
60	-	-	12.63	15.40	17.99	20.45	22.84	25.20	-

**Mass flow in kg/h**

20	316	436	577	741	925	1 131	-	-	-
30	281	399	536	693	869	1 064	1 277	1 509	-
35	261	379	515	670	843	1 034	1 243	1 468	-
40	236	355	492	647	818	1 006	1 210	1 430	-
45	205	327	466	620	791	976	1 178	1 394	-
50	167	293	433	589	760	945	1 144	1 357	-
55	-	250	394	553	724	909	1 107	1 318	-
60	-	-	347	508	682	868	1 066	1 276	-

**Coefficient of performance (C.O.P.)**

20	1.55	1.90	2.32	2.79	3.32	3.91	-	-	-
30	1.18	1.45	1.76	2.10	2.47	2.88	3.32	3.80	-
35	1.03	1.27	1.53	1.82	2.14	2.48	2.85	3.25	-
40	0.88	1.10	1.34	1.59	1.86	2.15	2.46	2.79	-
45	0.74	0.95	1.16	1.37	1.60	1.85	2.11	2.39	-
50	0.60	0.80	0.99	1.18	1.38	1.59	1.81	2.04	-
55	-	0.65	0.83	1.00	1.17	1.35	1.53	1.73	-
60	-	-	0.66	0.82	0.97	1.13	1.28	1.45	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	22 301	W
Power input	13 903	W
Current consumption	17.37	A
Mass flow	791	kg/h
C.O.P.	1.60	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 90 Hz, EN 12900 rating conditions, Suction temp. = 20 °C**
**R404A**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-30	-25	-20	-15	-10	-5	0	5

**Cooling capacity in W**

20	12 390	17 368	23 403	30 514	38 719	48 037	-	-	-
30	9 929	14 423	19 840	26 199	33 518	41 817	51 115	61 431	-
35	8 635	12 888	17 998	23 981	30 858	38 647	47 368	57 041	-
40	7 294	11 309	16 112	21 722	28 158	35 439	43 585	52 616	-
45	5 900	9 681	14 183	19 423	25 421	32 197	39 770	48 163	-
50	-	8 000	12 207	17 084	22 651	28 928	35 935	43 694	-
55	-	-	10 181	14 708	19 857	25 647	32 100	39 237	-
60	-	-	-	12 304	17 060	22 388	28 311	34 849	-

**Power input in W**

20	7 309	8 355	9 262	10 047	10 728	11 320	-	-	-
30	7 544	8 946	10 198	11 316	12 315	13 213	14 027	14 772	-
35	7 464	9 058	10 495	11 791	12 962	14 026	14 999	15 897	-
40	7 237	9 031	10 661	12 144	13 496	14 734	15 874	16 933	-
45	6 851	8 853	10 685	12 362	13 903	15 323	16 640	17 869	-
50	-	8 512	10 553	12 435	14 173	15 784	17 284	18 691	-
55	-	-	10 255	12 349	14 292	16 102	17 795	19 388	-
60	-	-	-	12 092	14 249	16 266	18 161	19 948	-

**Current consumption in A**

20	9.58	11.13	12.46	13.61	14.64	15.60	-	-	-
30	9.72	11.56	13.15	14.56	15.83	17.01	18.16	19.32	-
35	9.63	11.64	13.40	14.97	16.40	17.73	19.03	20.33	-
40	9.38	11.59	13.56	15.32	16.92	18.43	19.90	21.36	-
45	8.96	11.40	13.58	15.56	17.37	19.08	20.74	22.39	-
50	-	11.03	13.45	15.67	17.72	19.65	21.53	23.39	-
55	-	-	13.15	15.62	17.93	20.12	22.24	24.34	-
60	-	-	-	15.40	17.99	20.45	22.84	25.20	-

**Mass flow in kg/h**

20	315	433	574	736	920	1 124	-	-	-
30	280	397	533	689	864	1 057	1 269	1 499	-
35	259	377	512	666	838	1 028	1 235	1 459	-
40	234	353	490	643	813	1 000	1 202	1 421	-
45	204	325	463	617	786	971	1 170	1 385	-
50	-	291	431	586	755	939	1 137	1 348	-
55	-	-	392	549	720	904	1 100	1 310	-
60	-	-	-	505	678	863	1 060	1 268	-

**Coefficient of performance (C.O.P.)**

20	1.70	2.08	2.53	3.04	3.61	4.24	-	-	-
30	1.32	1.61	1.95	2.32	2.72	3.16	3.64	4.16	-
35	1.16	1.42	1.71	2.03	2.38	2.76	3.16	3.59	-
40	1.01	1.25	1.51	1.79	2.09	2.41	2.75	3.11	-
45	0.86	1.09	1.33	1.57	1.83	2.10	2.39	2.70	-
50	-	0.94	1.16	1.37	1.60	1.83	2.08	2.34	-
55	-	-	0.99	1.19	1.39	1.59	1.80	2.02	-
60	-	-	-	1.02	1.20	1.38	1.56	1.75	-

**Nominal performance at to = -10 °C, tc = 45 °C**

Cooling capacity	25 421	W
Power input	13 903	W
Current consumption	17.37	A
Mass flow	786	kg/h
C.O.P.	1.83	

**Pressure switch settings**

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 30 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	5 976	6 883	9 027	11 662	14 849	-	-	-	-
30	5 120	5 955	7 921	10 328	13 239	16 714	20 815	-	-
40	4 150	4 891	6 631	8 764	11 352	14 456	18 138	22 458	-
45	-	4 336	5 945	7 924	10 334	13 235	16 690	20 758	-
50	-	-	5 248	7 061	9 281	11 968	15 184	18 989	-
55	-	-	4 551	6 186	8 204	10 665	13 631	17 162	-
60	-	-	-	5 311	7 116	9 339	12 043	15 289	-
65	-	-	-	-	6 026	8 001	10 432	13 379	-

**Power input in W**

20	2 197	2 266	2 377	2 447	2 472	-	-	-	-
30	2 568	2 681	2 882	3 046	3 168	3 243	3 266	-	-
40	2 834	3 001	3 314	3 594	3 836	4 035	4 185	4 283	-
45	-	3 114	3 491	3 837	4 147	4 416	4 639	4 811	-
50	-	-	3 636	4 053	4 437	4 781	5 082	5 333	-
55	-	-	3 742	4 237	4 700	5 126	5 509	5 846	-
60	-	-	-	4 384	4 932	5 444	5 916	6 343	-
65	-	-	-	-	5 127	5 731	6 298	6 821	-

**Current consumption in A**

20	2.40	2.62	3.01	3.34	3.67	-	-	-	-
30	3.68	3.83	4.07	4.25	4.42	4.61	4.87	-	-
40	4.56	4.71	4.93	5.09	5.23	5.41	5.64	5.99	-
45	-	4.98	5.24	5.44	5.63	5.84	6.12	6.50	-
50	-	-	5.45	5.73	6.00	6.28	6.63	7.08	-
55	-	-	5.55	5.94	6.31	6.71	7.16	7.72	-
60	-	-	-	6.06	6.57	7.11	7.70	8.40	-
65	-	-	-	-	6.75	7.46	8.23	9.11	-

**Mass flow in kg/h**

20	115	131	170	216	270	-	-	-	-
30	107	123	161	207	261	325	400	-	-
40	96	112	149	193	246	309	382	466	-
45	-	105	141	184	236	297	369	452	-
50	-	-	132	174	224	284	354	436	-
55	-	-	121	162	211	269	338	418	-
60	-	-	-	149	196	252	319	397	-
65	-	-	-	-	179	234	298	374	-

**Coefficient of performance (C.O.P.)**

20	2.72	3.04	3.80	4.77	6.01	-	-	-	-
30	1.99	2.22	2.75	3.39	4.18	5.15	6.37	-	-
40	1.46	1.63	2.00	2.44	2.96	3.58	4.33	5.24	-
45	-	1.39	1.70	2.07	2.49	3.00	3.60	4.32	-
50	-	-	1.44	1.74	2.09	2.50	2.99	3.56	-
55	-	-	1.22	1.46	1.75	2.08	2.47	2.94	-
60	-	-	-	1.21	1.44	1.72	2.04	2.41	-
65	-	-	-	-	1.18	1.40	1.66	1.96	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	11 968	W
Power input	4 781	W
Current consumption	6.28	A
Mass flow	284	kg/h
C.O.P.	2.50	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 30 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	6 355	7 316	9 587	12 374	15 742	-	-	-	-
30	5 488	6 380	8 476	11 040	14 137	17 830	22 184	-	-
40	4 494	5 293	7 166	9 459	12 237	15 565	19 506	24 125	-
45	-	4 722	6 465	8 604	11 205	14 332	18 049	22 421	-
50	-	-	5 749	7 722	10 133	13 047	16 528	20 643	-
55	-	-	-	6 823	9 032	11 721	14 956	18 801	-
60	-	-	-	5 920	7 915	10 366	13 342	16 907	-
65	-	-	-	-	6 791	8 994	11 700	14 974	-

**Power input in W**

20	2 197	2 266	2 377	2 447	2 472	-	-	-	-
30	2 568	2 681	2 882	3 046	3 168	3 243	3 266	-	-
40	2 834	3 001	3 314	3 594	3 836	4 035	4 185	4 283	-
45	-	3 114	3 491	3 837	4 147	4 416	4 639	4 811	-
50	-	-	3 636	4 053	4 437	4 781	5 082	5 333	-
55	-	-	-	4 237	4 700	5 126	5 509	5 846	-
60	-	-	-	4 384	4 932	5 444	5 916	6 343	-
65	-	-	-	-	5 127	5 731	6 298	6 821	-

**Current consumption in A**

20	2.40	2.62	3.01	3.34	3.67	-	-	-	-
30	3.68	3.83	4.07	4.25	4.42	4.61	4.87	-	-
40	4.56	4.71	4.93	5.09	5.23	5.41	5.64	5.99	-
45	-	4.98	5.24	5.44	5.63	5.84	6.12	6.50	-
50	-	-	5.45	5.73	6.00	6.28	6.63	7.08	-
55	-	-	-	5.94	6.31	6.71	7.16	7.72	-
60	-	-	-	6.06	6.57	7.11	7.70	8.40	-
65	-	-	-	-	6.75	7.46	8.23	9.11	-

**Mass flow in kg/h**

20	114	130	169	214	269	-	-	-	-
30	106	123	161	206	260	324	398	-	-
40	95	111	148	192	245	307	379	463	-
45	-	104	140	183	235	296	367	450	-
50	-	-	131	173	223	282	352	434	-
55	-	-	-	161	210	267	336	415	-
60	-	-	-	148	195	251	317	395	-
65	-	-	-	-	178	232	296	372	-

**Coefficient of performance (C.O.P.)**

20	2.89	3.23	4.03	5.06	6.37	-	-	-	-
30	2.14	2.38	2.94	3.62	4.46	5.50	6.79	-	-
40	1.59	1.76	2.16	2.63	3.19	3.86	4.66	5.63	-
45	-	1.52	1.85	2.24	2.70	3.25	3.89	4.66	-
50	-	-	1.58	1.91	2.28	2.73	3.25	3.87	-
55	-	-	-	1.61	1.92	2.29	2.71	3.22	-
60	-	-	-	1.35	1.60	1.90	2.26	2.67	-
65	-	-	-	-	1.32	1.57	1.86	2.20	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	13 247	W
Power input	5 255	W
Current consumption	6.84	A
Mass flow	298	kg/h
C.O.P.	2.52	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 35 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	7 384	8 456	10 977	14 055	17 762	-	-	-	-
30	6 230	7 211	9 515	12 331	15 730	19 783	24 560	-	-
40	5 012	5 876	7 911	10 414	13 455	17 104	21 431	26 506	-
45	-	5 204	7 086	9 413	12 255	15 683	19 766	24 575	-
50	-	-	6 262	8 400	11 031	14 224	18 051	22 581	-
55	-	-	5 449	7 386	9 793	12 739	16 297	20 534	-
60	-	-	-	6 383	8 553	11 240	14 515	18 448	-
65	-	-	-	-	7 323	9 738	12 718	16 334	-

**Power input in W**

20	2 646	2 730	2 858	2 922	2 914	-	-	-	-
30	3 029	3 170	3 417	3 609	3 737	3 791	3 761	-	-
40	3 281	3 487	3 872	4 210	4 493	4 710	4 852	4 909	-
45	-	3 593	4 053	4 472	4 839	5 144	5 379	5 533	-
50	-	-	4 200	4 703	5 159	5 558	5 890	6 145	-
55	-	-	4 309	4 902	5 451	5 948	6 382	6 744	-
60	-	-	-	5 065	5 713	6 312	6 852	7 325	-
65	-	-	-	-	5 940	6 646	7 298	7 886	-

**Current consumption in A**

20	3.32	3.52	3.87	4.19	4.48	-	-	-	-
30	4.35	4.50	4.75	4.97	5.17	5.36	5.57	-	-
40	5.11	5.26	5.53	5.78	6.01	6.24	6.48	6.75	-
45	-	5.51	5.84	6.14	6.43	6.73	7.04	7.37	-
50	-	-	6.07	6.46	6.84	7.23	7.63	8.07	-
55	-	-	6.18	6.70	7.20	7.71	8.24	8.81	-
60	-	-	-	6.84	7.50	8.17	8.86	9.58	-
65	-	-	-	-	7.72	8.57	9.45	10.36	-

**Mass flow in kg/h**

20	141	161	206	260	323	-	-	-	-
30	130	149	194	247	311	385	472	-	-
40	116	134	177	229	292	365	451	550	-
45	-	126	168	219	280	352	437	536	-
50	-	-	157	207	266	338	421	519	-
55	-	-	145	193	252	321	404	500	-
60	-	-	-	179	235	304	384	479	-
65	-	-	-	-	218	284	363	456	-

**Coefficient of performance (C.O.P.)**

20	2.79	3.10	3.84	4.81	6.10	-	-	-	-
30	2.06	2.27	2.78	3.42	4.21	5.22	6.53	-	-
40	1.53	1.69	2.04	2.47	2.99	3.63	4.42	5.40	-
45	-	1.45	1.75	2.11	2.53	3.05	3.67	4.44	-
50	-	-	1.49	1.79	2.14	2.56	3.06	3.67	-
55	-	-	1.26	1.51	1.80	2.14	2.55	3.04	-
60	-	-	-	1.26	1.50	1.78	2.12	2.52	-
65	-	-	-	-	1.23	1.47	1.74	2.07	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	14 224	W
Power input	5 558	W
Current consumption	7.23	A
Mass flow	338	kg/h
C.O.P.	2.56	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 35 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	7 852	8 989	11 657	14 913	18 830	-	-	-	-
30	6 678	7 725	10 182	13 181	16 798	21 105	26 175	-	-
40	5 428	6 359	8 550	11 240	14 504	18 415	23 047	28 474	-
45	-	5 668	7 706	10 221	13 289	16 982	21 376	26 544	-
50	-	-	6 859	9 186	12 043	15 507	19 650	24 547	-
55	-	-	-	8 146	10 781	14 001	17 880	22 494	-
60	-	-	-	7 115	9 513	12 476	16 081	20 400	-
65	-	-	-	-	8 253	10 947	14 265	18 280	-

**Power input in W**

20	2 646	2 730	2 858	2 922	2 914	-	-	-	-
30	3 029	3 170	3 417	3 609	3 737	3 791	3 761	-	-
40	3 281	3 487	3 872	4 210	4 493	4 710	4 852	4 909	-
45	-	3 593	4 053	4 472	4 839	5 144	5 379	5 533	-
50	-	-	4 200	4 703	5 159	5 558	5 890	6 145	-
55	-	-	-	4 902	5 451	5 948	6 382	6 744	-
60	-	-	-	5 065	5 713	6 312	6 852	7 325	-
65	-	-	-	-	5 940	6 646	7 298	7 886	-

**Current consumption in A**

20	3.32	3.52	3.87	4.19	4.48	-	-	-	-
30	4.35	4.50	4.75	4.97	5.17	5.36	5.57	-	-
40	5.11	5.26	5.53	5.78	6.01	6.24	6.48	6.75	-
45	-	5.51	5.84	6.14	6.43	6.73	7.04	7.37	-
50	-	-	6.07	6.46	6.84	7.23	7.63	8.07	-
55	-	-	-	6.70	7.20	7.71	8.24	8.81	-
60	-	-	-	6.84	7.50	8.17	8.86	9.58	-
65	-	-	-	-	7.72	8.57	9.45	10.36	-

**Mass flow in kg/h**

20	141	160	205	258	322	-	-	-	-
30	129	148	193	246	309	383	469	-	-
40	115	133	176	228	290	363	448	547	-
45	-	125	167	217	278	350	435	533	-
50	-	-	156	205	265	336	419	516	-
55	-	-	-	192	250	320	401	497	-
60	-	-	-	178	234	302	382	476	-
65	-	-	-	-	217	282	361	453	-

**Coefficient of performance (C.O.P.)**

20	2.97	3.29	4.08	5.10	6.46	-	-	-	-
30	2.20	2.44	2.98	3.65	4.50	5.57	6.96	-	-
40	1.65	1.82	2.21	2.67	3.23	3.91	4.75	5.80	-
45	-	1.58	1.90	2.29	2.75	3.30	3.97	4.80	-
50	-	-	1.63	1.95	2.33	2.79	3.34	3.99	-
55	-	-	-	1.66	1.98	2.35	2.80	3.34	-
60	-	-	-	1.40	1.67	1.98	2.35	2.79	-
65	-	-	-	-	1.39	1.65	1.95	2.32	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	15 818	W
Power input	6 096	W
Current consumption	7.88	A
Mass flow	356	kg/h
C.O.P.	2.59	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 40 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	8 723	9 959	12 849	16 364	20 582	-	-	-	-
30	7 302	8 429	11 070	14 292	18 173	22 792	28 228	-	-
40	5 853	6 844	9 178	12 050	15 538	19 721	24 677	30 485	-
45	-	6 061	8 221	10 897	14 167	18 110	22 805	28 330	-
50	-	-	7 273	9 738	12 777	16 466	20 886	26 114	-
55	-	-	6 346	8 587	11 380	14 801	18 931	23 848	-
60	-	-	-	7 456	9 988	13 128	16 954	21 546	-
65	-	-	-	-	8 615	11 459	14 967	19 219	-

**Power input in W**

20	3 093	3 194	3 343	3 410	3 381	-	-	-	-
30	3 493	3 662	3 958	4 183	4 325	4 371	4 307	-	-
40	3 737	3 983	4 440	4 840	5 168	5 413	5 559	5 595	-
45	-	4 084	4 628	5 121	5 549	5 898	6 156	6 308	-
50	-	-	4 779	5 369	5 900	6 358	6 731	7 005	-
55	-	-	4 892	5 582	6 220	6 791	7 283	7 682	-
60	-	-	-	5 760	6 509	7 197	7 811	8 339	-
65	-	-	-	-	6 764	7 573	8 314	8 975	-

**Current consumption in A**

20	4.19	4.36	4.70	5.01	5.28	-	-	-	-
30	5.01	5.15	5.43	5.69	5.93	6.14	6.31	-	-
40	5.66	5.83	6.16	6.49	6.81	7.10	7.36	7.59	-
45	-	6.07	6.47	6.87	7.27	7.65	8.00	8.32	-
50	-	-	6.70	7.21	7.71	8.20	8.67	9.11	-
55	-	-	6.84	7.48	8.11	8.75	9.36	9.95	-
60	-	-	-	7.65	8.45	9.25	10.04	10.80	-
65	-	-	-	-	8.70	9.70	10.68	11.65	-

**Mass flow in kg/h**

20	167	190	241	303	375	-	-	-	-
30	152	175	226	287	359	444	542	-	-
40	135	156	206	265	337	421	519	633	-
45	-	146	194	253	323	407	504	618	-
50	-	-	182	239	309	391	488	600	-
55	-	-	169	225	292	373	469	581	-
60	-	-	-	209	275	355	449	559	-
65	-	-	-	-	256	334	427	536	-

**Coefficient of performance (C.O.P.)**

20	2.82	3.12	3.84	4.80	6.09	-	-	-	-
30	2.09	2.30	2.80	3.42	4.20	5.21	6.55	-	-
40	1.57	1.72	2.07	2.49	3.01	3.64	4.44	5.45	-
45	-	1.48	1.78	2.13	2.55	3.07	3.70	4.49	-
50	-	-	1.52	1.81	2.17	2.59	3.10	3.73	-
55	-	-	1.30	1.54	1.83	2.18	2.60	3.10	-
60	-	-	-	1.29	1.53	1.82	2.17	2.58	-
65	-	-	-	-	1.27	1.51	1.80	2.14	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	16 466	W
Power input	6 358	W
Current consumption	8.20	A
Mass flow	391	kg/h
C.O.P.	2.59	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 40 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	9 277	10 586	13 645	17 362	21 819	-	-	-	-
30	7 827	9 030	11 846	15 277	19 406	24 315	30 085	-	-
40	6 339	7 407	9 919	13 006	16 749	21 233	26 538	32 748	-
45	-	6 601	8 940	11 832	15 361	19 610	24 662	30 600	-
50	-	-	7 967	10 650	13 950	17 951	22 735	28 388	-
55	-	-	-	9 472	12 528	16 267	20 771	26 125	-
60	-	-	-	8 311	11 110	14 572	18 783	23 826	-
65	-	-	-	-	9 708	12 881	16 787	21 509	-

**Power input in W**

20	3 093	3 194	3 343	3 410	3 381	-	-	-	-
30	3 493	3 662	3 958	4 183	4 325	4 371	4 307	-	-
40	3 737	3 983	4 440	4 840	5 168	5 413	5 559	5 595	-
45	-	4 084	4 628	5 121	5 549	5 898	6 156	6 308	-
50	-	-	4 779	5 369	5 900	6 358	6 731	7 005	-
55	-	-	-	5 582	6 220	6 791	7 283	7 682	-
60	-	-	-	5 760	6 509	7 197	7 811	8 339	-
65	-	-	-	-	6 764	7 573	8 314	8 975	-

**Current consumption in A**

20	4.19	4.36	4.70	5.01	5.28	-	-	-	-
30	5.01	5.15	5.43	5.69	5.93	6.14	6.31	-	-
40	5.66	5.83	6.16	6.49	6.81	7.10	7.36	7.59	-
45	-	6.07	6.47	6.87	7.27	7.65	8.00	8.32	-
50	-	-	6.70	7.21	7.71	8.20	8.67	9.11	-
55	-	-	-	7.48	8.11	8.75	9.36	9.95	-
60	-	-	-	7.65	8.45	9.25	10.04	10.80	-
65	-	-	-	-	8.70	9.70	10.68	11.65	-

**Mass flow in kg/h**

20	166	189	240	301	373	-	-	-	-
30	151	174	224	285	357	441	539	-	-
40	134	155	205	264	335	418	516	629	-
45	-	145	193	252	321	404	501	614	-
50	-	-	181	238	307	389	485	597	-
55	-	-	-	224	291	371	466	577	-
60	-	-	-	208	274	353	446	556	-
65	-	-	-	-	255	332	424	533	-

**Coefficient of performance (C.O.P.)**

20	3.00	3.31	4.08	5.09	6.45	-	-	-	-
30	2.24	2.47	2.99	3.65	4.49	5.56	6.98	-	-
40	1.70	1.86	2.23	2.69	3.24	3.92	4.77	5.85	-
45	-	1.62	1.93	2.31	2.77	3.32	4.01	4.85	-
50	-	-	1.67	1.98	2.36	2.82	3.38	4.05	-
55	-	-	-	1.70	2.01	2.40	2.85	3.40	-
60	-	-	-	1.44	1.71	2.02	2.40	2.86	-
65	-	-	-	-	1.44	1.70	2.02	2.40	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	18 367	W
Power input	6 962	W
Current consumption	8.95	A
Mass flow	414	kg/h
C.O.P.	2.64	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 45 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	9 995	11 391	14 645	18 588	23 307	-	-	-	-
30	8 337	9 610	12 587	16 210	20 566	25 741	31 821	-	-
40	6 674	7 794	10 431	13 672	17 601	22 307	27 876	34 394	-
45	-	6 905	9 349	12 375	16 068	20 516	25 806	32 023	-
50	-	-	8 282	11 077	14 518	18 693	23 688	29 589	-
55	-	-	7 242	9 791	12 965	16 851	21 535	27 104	-
60	-	-	-	8 531	11 422	15 003	19 361	24 582	-
65	-	-	-	-	9 902	13 162	17 178	22 036	-

**Power input in W**

20	3 539	3 658	3 833	3 910	3 874	-	-	-	-
30	3 959	4 158	4 505	4 769	4 934	4 984	4 904	-	-
40	4 202	4 488	5 019	5 482	5 863	6 143	6 308	6 340	-
45	-	4 588	5 216	5 785	6 277	6 678	6 970	7 137	-
50	-	-	5 374	6 050	6 658	7 182	7 605	7 911	-
55	-	-	5 491	6 279	7 006	7 656	8 213	8 661	-
60	-	-	-	6 470	7 319	8 099	8 794	9 386	-
65	-	-	-	-	7 599	8 512	9 347	10 088	-

**Current consumption in A**

20	5.00	5.16	5.48	5.79	6.06	-	-	-	-
30	5.65	5.80	6.11	6.42	6.71	6.95	7.10	-	-
40	6.22	6.41	6.81	7.23	7.63	8.00	8.30	8.50	-
45	-	6.63	7.12	7.63	8.13	8.60	9.00	9.33	-
50	-	-	7.36	7.99	8.61	9.21	9.75	10.21	-
55	-	-	7.52	8.28	9.05	9.80	10.51	11.14	-
60	-	-	-	8.48	9.43	10.36	11.25	12.07	-
65	-	-	-	-	9.71	10.84	11.94	12.98	-

**Mass flow in kg/h**

20	191	217	275	344	424	-	-	-	-
30	174	199	257	325	406	501	611	-	-
40	154	178	234	301	381	476	586	714	-
45	-	167	221	287	367	461	571	698	-
50	-	-	207	272	351	444	553	680	-
55	-	-	193	256	333	425	534	660	-
60	-	-	-	239	315	405	513	638	-
65	-	-	-	-	295	384	490	614	-

**Coefficient of performance (C.O.P.)**

20	2.82	3.11	3.82	4.75	6.02	-	-	-	-
30	2.11	2.31	2.79	3.40	4.17	5.16	6.49	-	-
40	1.59	1.74	2.08	2.49	3.00	3.63	4.42	5.42	-
45	-	1.51	1.79	2.14	2.56	3.07	3.70	4.49	-
50	-	-	1.54	1.83	2.18	2.60	3.11	3.74	-
55	-	-	1.32	1.56	1.85	2.20	2.62	3.13	-
60	-	-	-	1.32	1.56	1.85	2.20	2.62	-
65	-	-	-	-	1.30	1.55	1.84	2.18	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	18 693	W
Power input	7 182	W
Current consumption	9.21	A
Mass flow	444	kg/h
C.O.P.	2.60	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 45 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	10 629	12 108	15 552	19 722	24 708	-	-	-	-
30	8 936	10 295	13 470	17 328	21 961	27 460	33 914	-	-
40	7 229	8 435	11 274	14 756	18 974	24 018	29 979	36 948	-
45	-	7 521	10 167	13 437	17 423	22 216	27 908	34 589	-
50	-	-	9 072	12 113	15 851	20 378	25 786	32 165	-
55	-	-	-	10 799	14 274	18 519	23 628	29 691	-
60	-	-	-	9 509	12 704	16 653	21 449	27 184	-
65	-	-	-	-	11 158	14 796	19 267	24 662	-

**Power input in W**

20	3 539	3 658	3 833	3 910	3 874	-	-	-	-
30	3 959	4 158	4 505	4 769	4 934	4 984	4 904	-	-
40	4 202	4 488	5 019	5 482	5 863	6 143	6 308	6 340	-
45	-	4 588	5 216	5 785	6 277	6 678	6 970	7 137	-
50	-	-	5 374	6 050	6 658	7 182	7 605	7 911	-
55	-	-	-	6 279	7 006	7 656	8 213	8 661	-
60	-	-	-	6 470	7 319	8 099	8 794	9 386	-
65	-	-	-	-	7 599	8 512	9 347	10 088	-

**Current consumption in A**

20	5.00	5.16	5.48	5.79	6.06	-	-	-	-
30	5.65	5.80	6.11	6.42	6.71	6.95	7.10	-	-
40	6.22	6.41	6.81	7.23	7.63	8.00	8.30	8.50	-
45	-	6.63	7.12	7.63	8.13	8.60	9.00	9.33	-
50	-	-	7.36	7.99	8.61	9.21	9.75	10.21	-
55	-	-	-	8.28	9.05	9.80	10.51	11.14	-
60	-	-	-	8.48	9.43	10.36	11.25	12.07	-
65	-	-	-	-	9.71	10.84	11.94	12.98	-

**Mass flow in kg/h**

20	190	216	274	342	422	-	-	-	-
30	173	198	255	323	404	498	608	-	-
40	153	177	233	299	379	473	583	710	-
45	-	166	220	286	365	458	567	694	-
50	-	-	206	271	349	441	550	676	-
55	-	-	-	255	331	423	531	656	-
60	-	-	-	238	313	403	510	634	-
65	-	-	-	-	293	382	487	611	-

**Coefficient of performance (C.O.P.)**

20	3.00	3.31	4.06	5.04	6.38	-	-	-	-
30	2.26	2.48	2.99	3.63	4.45	5.51	6.92	-	-
40	1.72	1.88	2.25	2.69	3.24	3.91	4.75	5.83	-
45	-	1.64	1.95	2.32	2.78	3.33	4.00	4.85	-
50	-	-	1.69	2.00	2.38	2.84	3.39	4.07	-
55	-	-	-	1.72	2.04	2.42	2.88	3.43	-
60	-	-	-	1.47	1.74	2.06	2.44	2.90	-
65	-	-	-	-	1.47	1.74	2.06	2.44	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	20 895	W
Power input	7 851	W
Current consumption	10.04	A
Mass flow	471	kg/h
C.O.P.	2.66	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 50 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	11 198	12 751	16 364	20 728	25 939	-	-	-	-
30	9 333	10 753	14 066	18 087	22 910	28 629	35 337	-	-
40	7 474	8 727	11 670	15 279	19 645	24 864	31 029	38 234	-
45	-	7 737	10 471	13 847	17 959	22 902	28 769	35 654	-
50	-	-	9 289	12 415	16 256	20 906	26 458	33 006	-
55	-	-	8 137	10 997	14 550	18 889	24 108	30 302	-
60	-	-	-	9 607	12 854	16 865	21 735	27 557	-
65	-	-	-	-	11 183	14 849	19 352	24 785	-

**Power input in W**

20	3 983	4 122	4 328	4 424	4 391	-	-	-	-
30	4 428	4 658	5 058	5 366	5 562	5 630	5 551	-	-
40	4 677	5 003	5 608	6 139	6 576	6 901	7 097	7 145	-
45	-	5 105	5 817	6 463	7 024	7 483	7 820	8 019	-
50	-	-	5 983	6 747	7 435	8 030	8 512	8 864	-
55	-	-	6 105	6 991	7 809	8 542	9 171	9 679	-
60	-	-	-	7 194	8 145	9 020	9 799	10 466	-
65	-	-	-	-	8 445	9 464	10 396	11 225	-

**Current consumption in A**

20	5.76	5.91	6.23	6.55	6.82	-	-	-	-
30	6.28	6.44	6.80	7.16	7.50	7.77	7.94	-	-
40	6.78	7.00	7.48	7.99	8.49	8.93	9.27	9.49	-
45	-	7.21	7.80	8.41	9.02	9.58	10.05	10.41	-
50	-	-	8.05	8.80	9.54	10.24	10.87	11.38	-
55	-	-	8.22	9.12	10.02	10.89	11.69	12.38	-
60	-	-	-	9.34	10.43	11.49	12.49	13.38	-
65	-	-	-	-	10.73	12.01	13.23	14.35	-

**Mass flow in kg/h**

20	214	243	307	383	472	-	-	-	-
30	195	223	287	363	452	557	679	-	-
40	172	199	262	337	426	530	653	794	-
45	-	187	248	321	410	514	636	778	-
50	-	-	233	305	393	496	618	759	-
55	-	-	217	288	374	477	598	738	-
60	-	-	-	270	354	456	576	716	-
65	-	-	-	-	333	433	552	691	-

**Coefficient of performance (C.O.P.)**

20	2.81	3.09	3.78	4.69	5.91	-	-	-	-
30	2.11	2.31	2.78	3.37	4.12	5.09	6.37	-	-
40	1.60	1.74	2.08	2.49	2.99	3.60	4.37	5.35	-
45	-	1.52	1.80	2.14	2.56	3.06	3.68	4.45	-
50	-	-	1.55	1.84	2.19	2.60	3.11	3.72	-
55	-	-	1.33	1.57	1.86	2.21	2.63	3.13	-
60	-	-	-	1.34	1.58	1.87	2.22	2.63	-
65	-	-	-	-	1.32	1.57	1.86	2.21	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	20 906	W
Power input	8 030	W
Current consumption	10.24	A
Mass flow	496	kg/h
C.O.P.	2.60	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 50 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	11 908	13 554	17 378	21 993	27 498	-	-	-	-
30	10 004	11 520	15 052	19 334	24 464	30 541	37 662	-	-
40	8 095	9 444	12 613	16 491	21 177	26 770	33 369	41 072	-
45	-	8 427	11 387	15 035	19 473	24 799	31 112	38 511	-
50	-	-	10 175	13 577	17 749	22 790	28 801	35 880	-
55	-	-	-	12 130	16 018	20 759	26 451	33 195	-
60	-	-	-	10 709	14 297	18 720	24 079	30 474	-
65	-	-	-	-	12 602	16 692	21 704	27 739	-

**Power input in W**

20	3 983	4 122	4 328	4 424	4 391	-	-	-	-
30	4 428	4 658	5 058	5 366	5 562	5 630	5 551	-	-
40	4 677	5 003	5 608	6 139	6 576	6 901	7 097	7 145	-
45	-	5 105	5 817	6 463	7 024	7 483	7 820	8 019	-
50	-	-	5 983	6 747	7 435	8 030	8 512	8 864	-
55	-	-	-	6 991	7 809	8 542	9 171	9 679	-
60	-	-	-	7 194	8 145	9 020	9 799	10 466	-
65	-	-	-	-	8 445	9 464	10 396	11 225	-

**Current consumption in A**

20	5.76	5.91	6.23	6.55	6.82	-	-	-	-
30	6.28	6.44	6.80	7.16	7.50	7.77	7.94	-	-
40	6.78	7.00	7.48	7.99	8.49	8.93	9.27	9.49	-
45	-	7.21	7.80	8.41	9.02	9.58	10.05	10.41	-
50	-	-	8.05	8.80	9.54	10.24	10.87	11.38	-
55	-	-	-	9.12	10.02	10.89	11.69	12.38	-
60	-	-	-	9.34	10.43	11.49	12.49	13.38	-
65	-	-	-	-	10.73	12.01	13.23	14.35	-

**Mass flow in kg/h**

20	213	241	306	381	470	-	-	-	-
30	194	221	285	361	450	554	675	-	-
40	171	198	260	335	423	527	649	789	-
45	-	186	246	320	408	511	633	773	-
50	-	-	231	304	390	493	614	754	-
55	-	-	-	286	372	474	594	734	-
60	-	-	-	268	352	453	572	711	-
65	-	-	-	-	331	430	548	687	-

**Coefficient of performance (C.O.P.)**

20	2.99	3.29	4.02	4.97	6.26	-	-	-	-
30	2.26	2.47	2.98	3.60	4.40	5.42	6.79	-	-
40	1.73	1.89	2.25	2.69	3.22	3.88	4.70	5.75	-
45	-	1.65	1.96	2.33	2.77	3.31	3.98	4.80	-
50	-	-	1.70	2.01	2.39	2.84	3.38	4.05	-
55	-	-	-	1.74	2.05	2.43	2.88	3.43	-
60	-	-	-	1.49	1.76	2.08	2.46	2.91	-
65	-	-	-	-	1.49	1.76	2.09	2.47	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	23 402	W
Power input	8 765	W
Current consumption	11.17	A
Mass flow	527	kg/h
C.O.P.	2.67	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 55 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	12 332	14 041	18 006	22 784	28 476	-	-	-	-
30	10 291	11 858	15 506	19 921	25 204	31 456	38 778	-	-
40	8 254	9 641	12 896	16 871	21 669	27 390	34 135	42 003	-
45	-	8 557	11 586	15 314	19 840	25 267	31 695	39 223	-
50	-	-	10 293	13 753	17 990	23 104	29 195	36 364	-
55	-	-	9 031	12 206	16 133	20 915	26 651	33 442	-
60	-	-	-	10 685	14 284	18 715	24 077	30 471	-
65	-	-	-	-	12 458	16 518	21 487	27 466	-

**Power input in W**

20	4 424	4 585	4 827	4 950	4 934	-	-	-	-
30	4 900	5 160	5 618	5 974	6 210	6 308	6 248	-	-
40	5 162	5 527	6 209	6 808	7 307	7 687	7 927	8 010	-
45	-	5 635	6 432	7 157	7 790	8 314	8 708	8 955	-
50	-	-	6 607	7 460	8 230	8 901	9 452	9 864	-
55	-	-	6 736	7 718	8 629	9 448	10 158	10 738	-
60	-	-	-	7 934	8 986	9 957	10 828	11 579	-
65	-	-	-	-	9 303	10 428	11 462	12 386	-

**Current consumption in A**

20	6.45	6.60	6.94	7.27	7.56	-	-	-	-
30	6.89	7.08	7.49	7.91	8.31	8.62	8.82	-	-
40	7.34	7.60	8.18	8.78	9.37	9.89	10.30	10.56	-
45	-	7.81	8.50	9.23	9.94	10.59	11.15	11.55	-
50	-	-	8.76	9.63	10.50	11.31	12.03	12.60	-
55	-	-	8.94	9.98	11.01	12.00	12.90	13.67	-
60	-	-	-	10.22	11.45	12.64	13.75	14.73	-
65	-	-	-	-	11.78	13.20	14.53	15.75	-

**Mass flow in kg/h**

20	236	267	338	421	519	-	-	-	-
30	215	246	316	400	498	612	745	-	-
40	190	220	289	372	469	584	718	872	-
45	-	206	274	355	453	567	701	855	-
50	-	-	258	338	434	548	682	836	-
55	-	-	241	320	415	528	661	815	-
60	-	-	-	300	393	505	638	791	-
65	-	-	-	-	371	481	612	765	-

**Coefficient of performance (C.O.P.)**

20	2.79	3.06	3.73	4.60	5.77	-	-	-	-
30	2.10	2.30	2.76	3.33	4.06	4.99	6.21	-	-
40	1.60	1.74	2.08	2.48	2.97	3.56	4.31	5.24	-
45	-	1.52	1.80	2.14	2.55	3.04	3.64	4.38	-
50	-	-	1.56	1.84	2.19	2.60	3.09	3.69	-
55	-	-	1.34	1.58	1.87	2.21	2.62	3.11	-
60	-	-	-	1.35	1.59	1.88	2.22	2.63	-
65	-	-	-	-	1.34	1.58	1.87	2.22	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	23 104	W
Power input	8 901	W
Current consumption	11.31	A
Mass flow	548	kg/h
C.O.P.	2.60	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 55 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	13 114	14 925	19 121	24 174	30 188	-	-	-	-
30	11 031	12 704	16 593	21 295	26 914	33 557	41 329	-	-
40	8 939	10 435	13 937	18 210	23 359	29 490	36 709	45 122	-
45	-	9 320	12 599	16 628	21 513	27 360	34 276	42 366	-
50	-	-	11 275	15 040	19 642	25 187	31 781	39 531	-
55	-	-	-	13 462	17 761	22 985	29 241	36 635	-
60	-	-	-	11 910	15 888	20 773	26 673	33 696	-
65	-	-	-	-	14 039	18 569	24 099	30 738	-

**Power input in W**

20	4 424	4 585	4 827	4 950	4 934	-	-	-	-
30	4 900	5 160	5 618	5 974	6 210	6 308	6 248	-	-
40	5 162	5 527	6 209	6 808	7 307	7 687	7 927	8 010	-
45	-	5 635	6 432	7 157	7 790	8 314	8 708	8 955	-
50	-	-	6 607	7 460	8 230	8 901	9 452	9 864	-
55	-	-	-	7 718	8 629	9 448	10 158	10 738	-
60	-	-	-	7 934	8 986	9 957	10 828	11 579	-
65	-	-	-	-	9 303	10 428	11 462	12 386	-

**Current consumption in A**

20	6.45	6.60	6.94	7.27	7.56	-	-	-	-
30	6.89	7.08	7.49	7.91	8.31	8.62	8.82	-	-
40	7.34	7.60	8.18	8.78	9.37	9.89	10.30	10.56	-
45	-	7.81	8.50	9.23	9.94	10.59	11.15	11.55	-
50	-	-	8.76	9.63	10.50	11.31	12.03	12.60	-
55	-	-	-	9.98	11.01	12.00	12.90	13.67	-
60	-	-	-	10.22	11.45	12.64	13.75	14.73	-
65	-	-	-	-	11.78	13.20	14.53	15.75	-

**Mass flow in kg/h**

20	234	266	336	419	516	-	-	-	-
30	214	244	314	397	495	609	740	-	-
40	189	219	288	370	467	581	714	867	-
45	-	205	272	354	450	564	697	850	-
50	-	-	256	336	432	545	678	831	-
55	-	-	-	318	412	525	657	810	-
60	-	-	-	298	391	503	634	787	-
65	-	-	-	-	369	479	609	761	-

**Coefficient of performance (C.O.P.)**

20	2.96	3.26	3.96	4.88	6.12	-	-	-	-
30	2.25	2.46	2.95	3.56	4.33	5.32	6.61	-	-
40	1.73	1.89	2.24	2.67	3.20	3.84	4.63	5.63	-
45	-	1.65	1.96	2.32	2.76	3.29	3.94	4.73	-
50	-	-	1.71	2.02	2.39	2.83	3.36	4.01	-
55	-	-	-	1.74	2.06	2.43	2.88	3.41	-
60	-	-	-	1.50	1.77	2.09	2.46	2.91	-
65	-	-	-	-	1.51	1.78	2.10	2.48	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	25 887	W
Power input	9 703	W
Current consumption	12.32	A
Mass flow	583	kg/h
C.O.P.	2.67	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 60 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	13 398	15 260	19 571	24 755	30 920	-	-	-	-
30	11 211	12 926	16 908	21 713	27 449	34 223	42 142	-	-
40	9 012	10 539	14 107	18 450	23 674	29 886	37 194	45 703	-
45	-	9 365	12 695	16 775	21 711	27 612	34 582	42 730	-
50	-	-	11 296	15 092	19 720	25 287	31 900	39 665	-
55	-	-	9 925	13 416	17 715	22 928	29 162	36 524	-
60	-	-	-	11 764	15 713	20 551	26 385	33 323	-
65	-	-	-	-	13 729	18 171	23 585	30 077	-

**Power input in W**

20	4 864	5 048	5 332	5 490	5 501	-	-	-	-
30	5 374	5 666	6 183	6 594	6 879	7 019	6 995	-	-
40	5 657	6 062	6 820	7 492	8 058	8 500	8 798	8 934	-
45	-	6 177	7 059	7 865	8 575	9 171	9 633	9 943	-
50	-	-	7 246	8 188	9 044	9 796	10 425	10 911	-
55	-	-	7 383	8 462	9 466	10 376	11 173	11 838	-
60	-	-	-	8 687	9 842	10 912	11 879	12 724	-
65	-	-	-	-	10 172	11 404	12 544	13 572	-

**Current consumption in A**

20	7.09	7.25	7.61	7.97	8.28	-	-	-	-
30	7.49	7.70	8.18	8.67	9.12	9.50	9.75	-	-
40	7.90	8.22	8.90	9.60	10.28	10.88	11.37	11.70	-
45	-	8.41	9.23	10.07	10.89	11.64	12.28	12.77	-
50	-	-	9.50	10.50	11.48	12.41	13.22	13.88	-
55	-	-	9.68	10.86	12.03	13.14	14.15	15.01	-
60	-	-	-	11.12	12.50	13.82	15.04	16.12	-
65	-	-	-	-	12.85	14.41	15.87	17.18	-

**Mass flow in kg/h**

20	256	290	367	458	563	-	-	-	-
30	234	268	345	436	542	666	810	-	-
40	208	241	316	406	513	638	782	949	-
45	-	226	300	389	495	620	765	932	-
50	-	-	283	371	476	600	745	912	-
55	-	-	265	351	455	579	723	890	-
60	-	-	-	330	433	555	699	865	-
65	-	-	-	-	409	530	672	838	-

**Coefficient of performance (C.O.P.)**

20	2.75	3.02	3.67	4.51	5.62	-	-	-	-
30	2.09	2.28	2.73	3.29	3.99	4.88	6.02	-	-
40	1.59	1.74	2.07	2.46	2.94	3.52	4.23	5.12	-
45	-	1.52	1.80	2.13	2.53	3.01	3.59	4.30	-
50	-	-	1.56	1.84	2.18	2.58	3.06	3.64	-
55	-	-	1.34	1.59	1.87	2.21	2.61	3.09	-
60	-	-	-	1.35	1.60	1.88	2.22	2.62	-
65	-	-	-	-	1.35	1.59	1.88	2.22	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	25 287	W
Power input	9 796	W
Current consumption	12.41	A
Mass flow	600	kg/h
C.O.P.	2.58	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 60 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	14 248	16 220	20 783	26 266	32 779	-	-	-	-
30	12 017	13 848	18 093	23 210	29 312	36 509	44 914	-	-
40	9 760	11 406	15 246	19 914	25 520	32 178	39 999	49 096	-
45	-	10 200	13 805	18 215	23 542	29 899	37 399	46 154	-
50	-	-	12 374	16 504	21 531	27 567	34 725	43 119	-
55	-	-	-	14 798	19 503	25 198	31 996	40 011	-
60	-	-	-	13 113	17 477	22 811	29 231	36 850	-
65	-	-	-	-	15 471	20 427	26 452	33 661	-

**Power input in W**

20	4 864	5 048	5 332	5 490	5 501	-	-	-	-
30	5 374	5 666	6 183	6 594	6 879	7 019	6 995	-	-
40	5 657	6 062	6 820	7 492	8 058	8 500	8 798	8 934	-
45	-	6 177	7 059	7 865	8 575	9 171	9 633	9 943	-
50	-	-	7 246	8 188	9 044	9 796	10 425	10 911	-
55	-	-	-	8 462	9 466	10 376	11 173	11 838	-
60	-	-	-	8 687	9 842	10 912	11 879	12 724	-
65	-	-	-	-	10 172	11 404	12 544	13 572	-

**Current consumption in A**

20	7.09	7.25	7.61	7.97	8.28	-	-	-	-
30	7.49	7.70	8.18	8.67	9.12	9.50	9.75	-	-
40	7.90	8.22	8.90	9.60	10.28	10.88	11.37	11.70	-
45	-	8.41	9.23	10.07	10.89	11.64	12.28	12.77	-
50	-	-	9.50	10.50	11.48	12.41	13.22	13.88	-
55	-	-	-	10.86	12.03	13.14	14.15	15.01	-
60	-	-	-	11.12	12.50	13.82	15.04	16.12	-
65	-	-	-	-	12.85	14.41	15.87	17.18	-

**Mass flow in kg/h**

20	255	289	366	455	560	-	-	-	-
30	233	266	343	433	539	662	805	-	-
40	207	239	315	404	510	634	778	943	-
45	-	225	299	387	493	616	760	926	-
50	-	-	281	369	474	597	741	907	-
55	-	-	-	349	453	575	719	885	-
60	-	-	-	328	430	552	695	860	-
65	-	-	-	-	406	527	668	833	-

**Coefficient of performance (C.O.P.)**

20	2.93	3.21	3.90	4.78	5.96	-	-	-	-
30	2.24	2.44	2.93	3.52	4.26	5.20	6.42	-	-
40	1.73	1.88	2.24	2.66	3.17	3.79	4.55	5.50	-
45	-	1.65	1.96	2.32	2.75	3.26	3.88	4.64	-
50	-	-	1.71	2.02	2.38	2.81	3.33	3.95	-
55	-	-	-	1.75	2.06	2.43	2.86	3.38	-
60	-	-	-	1.51	1.78	2.09	2.46	2.90	-
65	-	-	-	-	1.52	1.79	2.11	2.48	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	28 351	W
Power input	10 666	W
Current consumption	13.51	A
Mass flow	638	kg/h
C.O.P.	2.66	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 65 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	14 395	16 407	21 059	26 642	33 270	-	-	-	-
30	12 093	13 956	18 271	23 463	29 645	36 930	45 430	-	-
40	9 750	11 419	15 305	20 014	25 659	32 352	40 206	49 334	-
45	-	10 160	13 797	18 230	23 572	29 935	37 432	46 175	-
50	-	-	12 296	16 430	21 446	27 456	34 572	42 908	-
55	-	-	10 817	14 629	19 296	24 930	31 643	39 548	-
60	-	-	-	12 845	17 140	22 375	28 662	36 114	-
65	-	-	-	-	14 994	19 807	25 645	32 621	-

**Power input in W**

20	5 302	5 511	5 841	6 042	6 094	-	-	-	-
30	5 851	6 176	6 755	7 225	7 567	7 762	7 793	-	-
40	6 160	6 606	7 442	8 188	8 827	9 341	9 710	9 918	-
45	-	6 733	7 700	8 587	9 378	10 053	10 595	10 985	-
50	-	-	7 901	8 932	9 875	10 714	11 430	12 005	-
55	-	-	8 045	9 221	10 320	11 325	12 217	12 977	-
60	-	-	-	9 456	10 712	11 884	12 954	13 903	-
65	-	-	-	-	11 052	12 393	13 642	14 781	-

**Current consumption in A**

20	7.67	7.85	8.24	8.63	8.98	-	-	-	-
30	8.07	8.32	8.88	9.43	9.95	10.40	10.72	-	-
40	8.46	8.84	9.63	10.44	11.21	11.91	12.49	12.91	-
45	-	9.04	9.98	10.94	11.87	12.72	13.46	14.05	-
50	-	-	10.26	11.39	12.50	13.53	14.46	15.22	-
55	-	-	10.45	11.78	13.08	14.31	15.43	16.40	-
60	-	-	-	12.05	13.57	15.02	16.37	17.56	-
65	-	-	-	-	13.94	15.63	17.22	18.66	-

**Mass flow in kg/h**

20	275	312	395	493	606	-	-	-	-
30	252	289	372	471	586	719	873	-	-
40	225	261	343	441	556	690	846	1 024	-
45	-	245	326	423	538	672	828	1 007	-
50	-	-	308	404	518	652	807	987	-
55	-	-	288	383	496	629	785	964	-
60	-	-	-	360	472	604	759	938	-
65	-	-	-	-	446	577	731	909	-

**Coefficient of performance (C.O.P.)**

20	2.72	2.98	3.61	4.41	5.46	-	-	-	-
30	2.07	2.26	2.70	3.25	3.92	4.76	5.83	-	-
40	1.58	1.73	2.06	2.44	2.91	3.46	4.14	4.97	-
45	-	1.51	1.79	2.12	2.51	2.98	3.53	4.20	-
50	-	-	1.56	1.84	2.17	2.56	3.02	3.57	-
55	-	-	1.34	1.59	1.87	2.20	2.59	3.05	-
60	-	-	-	1.36	1.60	1.88	2.21	2.60	-
65	-	-	-	-	1.36	1.60	1.88	2.21	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	27 456	W
Power input	10 714	W
Current consumption	13.53	A
Mass flow	652	kg/h
C.O.P.	2.56	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 65 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	15 309	17 440	22 364	28 268	35 270	-	-	-	-
30	12 962	14 951	19 551	25 081	31 657	39 397	48 418	-	-
40	10 559	12 358	16 541	21 602	27 659	34 832	43 239	52 996	-
45	-	11 066	15 004	19 795	25 559	32 415	40 481	49 875	-
50	-	-	13 469	17 967	23 415	29 931	37 634	46 644	-
55	-	-	-	16 136	21 243	27 398	34 718	43 324	-
60	-	-	-	14 318	19 064	24 835	31 753	39 936	-
65	-	-	-	-	16 897	22 266	28 762	36 508	-

**Power input in W**

20	5 302	5 511	5 841	6 042	6 094	-	-	-	-
30	5 851	6 176	6 755	7 225	7 567	7 762	7 793	-	-
40	6 160	6 606	7 442	8 188	8 827	9 341	9 710	9 918	-
45	-	6 733	7 700	8 587	9 378	10 053	10 595	10 985	-
50	-	-	7 901	8 932	9 875	10 714	11 430	12 005	-
55	-	-	-	9 221	10 320	11 325	12 217	12 977	-
60	-	-	-	9 456	10 712	11 884	12 954	13 903	-
65	-	-	-	-	11 052	12 393	13 642	14 781	-

**Current consumption in A**

20	7.67	7.85	8.24	8.63	8.98	-	-	-	-
30	8.07	8.32	8.88	9.43	9.95	10.40	10.72	-	-
40	8.46	8.84	9.63	10.44	11.21	11.91	12.49	12.91	-
45	-	9.04	9.98	10.94	11.87	12.72	13.46	14.05	-
50	-	-	10.26	11.39	12.50	13.53	14.46	15.22	-
55	-	-	-	11.78	13.08	14.31	15.43	16.40	-
60	-	-	-	12.05	13.57	15.02	16.37	17.56	-
65	-	-	-	-	13.94	15.63	17.22	18.66	-

**Mass flow in kg/h**

20	274	310	393	490	603	-	-	-	-
30	251	287	370	468	582	715	868	-	-
40	224	259	341	438	553	686	841	1 018	-
45	-	244	324	421	535	668	823	1 001	-
50	-	-	306	402	515	648	803	981	-
55	-	-	-	381	493	626	780	958	-
60	-	-	-	358	469	601	754	932	-
65	-	-	-	-	444	574	727	904	-

**Coefficient of performance (C.O.P.)**

20	2.89	3.16	3.83	4.68	5.79	-	-	-	-
30	2.22	2.42	2.89	3.47	4.18	5.08	6.21	-	-
40	1.71	1.87	2.22	2.64	3.13	3.73	4.45	5.34	-
45	-	1.64	1.95	2.31	2.73	3.22	3.82	4.54	-
50	-	-	1.70	2.01	2.37	2.79	3.29	3.89	-
55	-	-	-	1.75	2.06	2.42	2.84	3.34	-
60	-	-	-	1.51	1.78	2.09	2.45	2.87	-
65	-	-	-	-	1.53	1.80	2.11	2.47	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	30 794	W
Power input	11 653	W
Current consumption	14.72	A
Mass flow	693	kg/h
C.O.P.	2.64	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 70 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	15 325	17 484	22 470	28 445	35 526	-	-	-	-
30	12 936	14 948	19 595	25 171	31 792	39 576	48 641	-	-
40	10 467	12 282	16 489	21 564	27 624	34 788	43 172	52 894	-
45	-	10 944	14 893	19 681	25 423	32 238	40 244	49 558	-
50	-	-	13 294	17 768	23 168	29 610	37 212	46 092	-
55	-	-	11 708	15 844	20 876	26 919	34 093	42 515	-
60	-	-	-	13 927	18 565	24 185	30 905	38 843	-
65	-	-	-	-	16 254	21 426	27 667	35 096	-

**Power input in W**

20	5 738	5 973	6 356	6 607	6 711	-	-	-	-
30	6 330	6 689	7 334	7 868	8 275	8 538	8 642	-	-
40	6 674	7 160	8 074	8 898	9 615	10 209	10 663	10 962	-
45	-	7 301	8 353	9 325	10 199	10 961	11 594	12 080	-
50	-	-	8 570	9 691	10 725	11 657	12 469	13 146	-
55	-	-	8 724	9 996	11 192	12 295	13 289	14 157	-
60	-	-	-	10 239	11 598	12 874	14 052	15 114	-
65	-	-	-	-	11 943	13 394	14 757	16 014	-

**Current consumption in A**

20	8.19	8.40	8.83	9.27	9.66	-	-	-	-
30	8.63	8.94	9.57	10.21	10.80	11.32	11.73	-	-
40	9.03	9.48	10.40	11.30	12.17	12.97	13.65	14.20	-
45	-	9.67	10.76	11.84	12.87	13.84	14.69	15.40	-
50	-	-	11.05	12.32	13.54	14.69	15.73	16.62	-
55	-	-	11.24	12.72	14.15	15.50	16.75	17.85	-
60	-	-	-	13.00	14.66	16.24	17.71	19.04	-
65	-	-	-	-	15.05	16.88	18.60	20.17	-

**Mass flow in kg/h**

20	293	333	422	526	647	-	-	-	-
30	270	310	399	505	628	770	934	-	-
40	241	280	370	475	599	742	908	1 098	-
45	-	264	352	457	580	724	890	1 081	-
50	-	-	333	437	559	703	869	1 060	-
55	-	-	312	415	536	679	845	1 036	-
60	-	-	-	391	511	653	818	1 009	-
65	-	-	-	-	484	624	789	979	-

**Coefficient of performance (C.O.P.)**

20	2.67	2.93	3.54	4.31	5.29	-	-	-	-
30	2.04	2.23	2.67	3.20	3.84	4.64	5.63	-	-
40	1.57	1.72	2.04	2.42	2.87	3.41	4.05	4.83	-
45	-	1.50	1.78	2.11	2.49	2.94	3.47	4.10	-
50	-	-	1.55	1.83	2.16	2.54	2.98	3.51	-
55	-	-	1.34	1.59	1.87	2.19	2.57	3.00	-
60	-	-	-	1.36	1.60	1.88	2.20	2.57	-
65	-	-	-	-	1.36	1.60	1.87	2.19	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	29 610	W
Power input	11 657	W
Current consumption	14.69	A
Mass flow	703	kg/h
C.O.P.	2.54	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 70 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	16 297	18 584	23 863	30 181	37 662	-	-	-	-
30	13 866	16 014	20 969	26 906	33 949	42 220	51 841	-	-
40	11 336	13 292	17 820	23 274	29 778	37 455	46 428	56 821	-
45	-	11 919	16 196	21 370	27 566	34 909	43 522	53 529	-
50	-	-	14 562	19 431	25 295	32 279	40 508	50 106	-
55	-	-	-	17 476	22 982	29 584	37 406	46 573	-
60	-	-	-	15 524	20 649	26 845	34 239	42 954	-
65	-	-	-	-	18 316	24 085	31 030	39 278	-

**Power input in W**

20	5 738	5 973	6 356	6 607	6 711	-	-	-	-
30	6 330	6 689	7 334	7 868	8 275	8 538	8 642	-	-
40	6 674	7 160	8 074	8 898	9 615	10 209	10 663	10 962	-
45	-	7 301	8 353	9 325	10 199	10 961	11 594	12 080	-
50	-	-	8 570	9 691	10 725	11 657	12 469	13 146	-
55	-	-	-	9 996	11 192	12 295	13 289	14 157	-
60	-	-	-	10 239	11 598	12 874	14 052	15 114	-
65	-	-	-	-	11 943	13 394	14 757	16 014	-

**Current consumption in A**

20	8.19	8.40	8.83	9.27	9.66	-	-	-	-
30	8.63	8.94	9.57	10.21	10.80	11.32	11.73	-	-
40	9.03	9.48	10.40	11.30	12.17	12.97	13.65	14.20	-
45	-	9.67	10.76	11.84	12.87	13.84	14.69	15.40	-
50	-	-	11.05	12.32	13.54	14.69	15.73	16.62	-
55	-	-	-	12.72	14.15	15.50	16.75	17.85	-
60	-	-	-	13.00	14.66	16.24	17.71	19.04	-
65	-	-	-	-	15.05	16.88	18.60	20.17	-

**Mass flow in kg/h**

20	291	331	420	523	644	-	-	-	-
30	268	308	397	502	624	766	929	-	-
40	240	279	368	472	595	738	903	1 091	-
45	-	262	350	454	577	720	885	1 074	-
50	-	-	331	434	556	699	864	1 054	-
55	-	-	-	412	533	675	840	1 030	-
60	-	-	-	389	508	649	814	1 003	-
65	-	-	-	-	481	621	784	973	-

**Coefficient of performance (C.O.P.)**

20	2.84	3.11	3.75	4.57	5.61	-	-	-	-
30	2.19	2.39	2.86	3.42	4.10	4.94	6.00	-	-
40	1.70	1.86	2.21	2.62	3.10	3.67	4.35	5.18	-
45	-	1.63	1.94	2.29	2.70	3.18	3.75	4.43	-
50	-	-	1.70	2.01	2.36	2.77	3.25	3.81	-
55	-	-	-	1.75	2.05	2.41	2.81	3.29	-
60	-	-	-	1.52	1.78	2.09	2.44	2.84	-
65	-	-	-	-	1.53	1.80	2.10	2.45	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	33 216	W
Power input	12 664	W
Current consumption	15.96	A
Mass flow	748	kg/h
C.O.P.	2.62	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 75 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	16 185	18 490	23 805	30 164	37 689	-	-	-	-
30	13 742	15 903	20 882	26 836	33 889	42 162	51 777	-	-
40	11 163	13 127	17 659	23 099	29 570	37 193	46 091	56 385	-
45	-	11 715	15 983	21 125	27 264	34 521	43 019	52 879	-
50	-	-	14 290	19 106	24 885	31 749	39 819	49 219	-
55	-	-	12 598	17 062	22 454	28 897	36 512	45 423	-
60	-	-	-	15 011	19 989	25 983	33 117	41 511	-
65	-	-	-	-	17 508	23 027	29 651	37 502	-

**Power input in W**

20	6 172	6 436	6 875	7 185	7 353	-	-	-	-
30	6 812	7 205	7 918	8 522	9 002	9 347	9 540	-	-
40	7 197	7 723	8 717	9 621	10 422	11 105	11 657	12 065	-
45	-	7 883	9 020	10 077	11 040	11 895	12 630	13 229	-
50	-	-	9 254	10 466	11 593	12 623	13 541	14 334	-
55	-	-	9 419	10 787	12 080	13 286	14 389	15 377	-
60	-	-	-	11 037	12 498	13 881	15 172	16 357	-
65	-	-	-	-	12 845	14 408	15 888	17 272	-

**Current consumption in A**

20	8.65	8.90	9.39	9.87	10.32	-	-	-	-
30	9.18	9.55	10.28	10.99	11.66	12.27	12.80	-	-
40	9.60	10.13	11.18	12.20	13.16	14.06	14.87	15.56	-
45	-	10.33	11.56	12.77	13.91	14.98	15.96	16.82	-
50	-	-	11.86	13.27	14.61	15.88	17.04	18.09	-
55	-	-	12.05	13.68	15.25	16.73	18.10	19.34	-
60	-	-	-	13.98	15.78	17.49	19.09	20.56	-
65	-	-	-	-	16.18	18.15	20.00	21.71	-

**Mass flow in kg/h**

20	309	352	447	558	687	-	-	-	-
30	287	329	426	538	669	821	995	-	-
40	257	300	396	509	641	794	969	1 170	-
45	-	282	378	490	622	775	951	1 153	-
50	-	-	358	470	601	754	930	1 132	-
55	-	-	336	447	577	729	905	1 107	-
60	-	-	-	421	550	702	877	1 078	-
65	-	-	-	-	521	671	845	1 046	-

**Coefficient of performance (C.O.P.)**

20	2.62	2.87	3.46	4.20	5.13	-	-	-	-
30	2.02	2.21	2.64	3.15	3.76	4.51	5.43	-	-
40	1.55	1.70	2.03	2.40	2.84	3.35	3.95	4.67	-
45	-	1.49	1.77	2.10	2.47	2.90	3.41	4.00	-
50	-	-	1.54	1.83	2.15	2.52	2.94	3.43	-
55	-	-	1.34	1.58	1.86	2.18	2.54	2.95	-
60	-	-	-	1.36	1.60	1.87	2.18	2.54	-
65	-	-	-	-	1.36	1.60	1.87	2.17	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	31 749	W
Power input	12 623	W
Current consumption	15.88	A
Mass flow	754	kg/h
C.O.P.	2.52	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 75 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	17 212	19 653	25 280	32 004	39 954	-	-	-	-
30	14 730	17 037	22 345	28 686	36 188	44 978	55 183	-	-
40	12 090	14 206	19 085	24 932	31 875	40 044	49 567	60 571	-
45	-	12 759	17 381	22 938	29 562	37 380	46 522	57 116	-
50	-	-	15 653	20 894	27 170	34 611	43 346	53 504	-
55	-	-	-	18 819	24 720	31 757	40 061	49 759	-
60	-	-	-	16 732	22 232	28 841	36 688	45 905	-
65	-	-	-	-	19 730	25 886	33 256	41 971	-

**Power input in W**

20	6 172	6 436	6 875	7 185	7 353	-	-	-	-
30	6 812	7 205	7 918	8 522	9 002	9 347	9 540	-	-
40	7 197	7 723	8 717	9 621	10 422	11 105	11 657	12 065	-
45	-	7 883	9 020	10 077	11 040	11 895	12 630	13 229	-
50	-	-	9 254	10 466	11 593	12 623	13 541	14 334	-
55	-	-	-	10 787	12 080	13 286	14 389	15 377	-
60	-	-	-	11 037	12 498	13 881	15 172	16 357	-
65	-	-	-	-	12 845	14 408	15 888	17 272	-

**Current consumption in A**

20	8.65	8.90	9.39	9.87	10.32	-	-	-	-
30	9.18	9.55	10.28	10.99	11.66	12.27	12.80	-	-
40	9.60	10.13	11.18	12.20	13.16	14.06	14.87	15.56	-
45	-	10.33	11.56	12.77	13.91	14.98	15.96	16.82	-
50	-	-	11.86	13.27	14.61	15.88	17.04	18.09	-
55	-	-	-	13.68	15.25	16.73	18.10	19.34	-
60	-	-	-	13.98	15.78	17.49	19.09	20.56	-
65	-	-	-	-	16.18	18.15	20.00	21.71	-

**Mass flow in kg/h**

20	308	350	445	555	683	-	-	-	-
30	285	328	423	535	666	816	989	-	-
40	256	298	394	506	637	789	964	1 163	-
45	-	281	376	488	619	771	946	1 146	-
50	-	-	356	467	598	749	924	1 125	-
55	-	-	-	444	574	725	900	1 100	-
60	-	-	-	419	547	698	872	1 072	-
65	-	-	-	-	518	667	840	1 040	-

**Coefficient of performance (C.O.P.)**

20	2.79	3.05	3.68	4.45	5.43	-	-	-	-
30	2.16	2.36	2.82	3.37	4.02	4.81	5.78	-	-
40	1.68	1.84	2.19	2.59	3.06	3.61	4.25	5.02	-
45	-	1.62	1.93	2.28	2.68	3.14	3.68	4.32	-
50	-	-	1.69	2.00	2.34	2.74	3.20	3.73	-
55	-	-	-	1.74	2.05	2.39	2.78	3.24	-
60	-	-	-	1.52	1.78	2.08	2.42	2.81	-
65	-	-	-	-	1.54	1.80	2.09	2.43	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	35 616	W
Power input	13 699	W
Current consumption	17.23	A
Mass flow	802	kg/h
C.O.P.	2.60	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 80 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	16 978	19 424	25 062	31 798	39 757	-	-	-	-
30	14 509	16 820	22 129	28 460	35 937	44 687	54 836	-	-
40	11 838	13 954	18 815	24 620	31 496	39 568	48 963	59 806	-
45	-	12 474	17 066	22 564	29 094	36 783	45 755	56 138	-
50	-	-	15 283	20 444	26 599	33 874	42 394	52 287	-
55	-	-	13 487	18 281	24 031	30 862	38 901	48 273	-
60	-	-	-	16 096	21 410	27 768	35 295	44 118	-
65	-	-	-	-	18 758	24 612	31 598	39 840	-

**Power input in W**

20	6 604	6 898	7 399	7 776	8 021	-	-	-	-
30	7 296	7 725	8 509	9 187	9 750	10 188	10 489	-	-
40	7 730	8 297	9 371	10 358	11 247	12 029	12 692	13 228	-
45	-	8 477	9 700	10 844	11 899	12 855	13 702	14 431	-
50	-	-	9 954	11 257	12 480	13 613	14 646	15 569	-
55	-	-	10 130	11 593	12 986	14 298	15 518	16 638	-
60	-	-	-	11 849	13 414	14 906	16 316	17 634	-
65	-	-	-	-	13 759	15 434	17 035	18 553	-

**Current consumption in A**

20	9.06	9.34	9.91	10.45	10.96	-	-	-	-
30	9.71	10.15	10.98	11.78	12.53	13.24	13.90	-	-
40	10.17	10.79	11.99	13.11	14.18	15.18	16.13	17.00	-
45	-	10.99	12.39	13.72	14.98	16.16	17.27	18.30	-
50	-	-	12.70	14.25	15.72	17.10	18.39	19.61	-
55	-	-	12.89	14.68	16.37	17.97	19.48	20.89	-
60	-	-	-	14.98	16.92	18.76	20.50	22.13	-
65	-	-	-	-	17.33	19.44	21.42	23.29	-

**Mass flow in kg/h**

20	325	370	470	588	724	-	-	-	-
30	303	348	451	571	710	870	1 054	-	-
40	273	319	422	542	682	844	1 030	1 241	-
45	-	301	404	524	664	826	1 012	1 224	-
50	-	-	383	503	642	804	990	1 202	-
55	-	-	360	479	618	779	964	1 176	-
60	-	-	-	452	590	750	935	1 146	-
65	-	-	-	-	558	717	901	1 112	-

**Coefficient of performance (C.O.P.)**

20	2.57	2.82	3.39	4.09	4.96	-	-	-	-
30	1.99	2.18	2.60	3.10	3.69	4.39	5.23	-	-
40	1.53	1.68	2.01	2.38	2.80	3.29	3.86	4.52	-
45	-	1.47	1.76	2.08	2.45	2.86	3.34	3.89	-
50	-	-	1.54	1.82	2.13	2.49	2.89	3.36	-
55	-	-	1.33	1.58	1.85	2.16	2.51	2.90	-
60	-	-	-	1.36	1.60	1.86	2.16	2.50	-
65	-	-	-	-	1.36	1.59	1.85	2.15	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	33 874	W
Power input	13 613	W
Current consumption	17.10	A
Mass flow	804	kg/h
C.O.P.	2.49	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 80 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	18 055	20 647	26 615	33 738	42 147	-	-	-	-
30	15 552	18 019	23 681	30 422	38 375	47 672	58 443	-	-
40	12 821	15 102	20 334	26 573	33 951	42 602	52 656	64 246	-
45	-	13 586	18 559	24 501	31 547	39 829	49 482	60 636	-
50	-	-	16 742	22 357	29 041	36 927	46 149	56 840	-
55	-	-	-	20 164	26 456	33 917	42 681	52 882	-
60	-	-	-	17 942	23 814	30 822	39 102	48 787	-
65	-	-	-	-	21 138	27 668	35 439	44 588	-

**Power input in W**

20	6 604	6 898	7 399	7 776	8 021	-	-	-	-
30	7 296	7 725	8 509	9 187	9 750	10 188	10 489	-	-
40	7 730	8 297	9 371	10 358	11 247	12 029	12 692	13 228	-
45	-	8 477	9 700	10 844	11 899	12 855	13 702	14 431	-
50	-	-	9 954	11 257	12 480	13 613	14 646	15 569	-
55	-	-	-	11 593	12 986	14 298	15 518	16 638	-
60	-	-	-	11 849	13 414	14 906	16 316	17 634	-
65	-	-	-	-	13 759	15 434	17 035	18 553	-

**Current consumption in A**

20	9.06	9.34	9.91	10.45	10.96	-	-	-	-
30	9.71	10.15	10.98	11.78	12.53	13.24	13.90	-	-
40	10.17	10.79	11.99	13.11	14.18	15.18	16.13	17.00	-
45	-	10.99	12.39	13.72	14.98	16.16	17.27	18.30	-
50	-	-	12.70	14.25	15.72	17.10	18.39	19.61	-
55	-	-	-	14.68	16.37	17.97	19.48	20.89	-
60	-	-	-	14.98	16.92	18.76	20.50	22.13	-
65	-	-	-	-	17.33	19.44	21.42	23.29	-

**Mass flow in kg/h**

20	323	368	468	585	720	-	-	-	-
30	301	346	449	568	706	865	1 047	-	-
40	271	317	420	539	679	839	1 024	1 234	-
45	-	299	401	521	660	821	1 006	1 216	-
50	-	-	381	500	639	800	984	1 195	-
55	-	-	-	476	614	774	959	1 169	-
60	-	-	-	449	586	745	929	1 139	-
65	-	-	-	-	555	713	896	1 105	-

**Coefficient of performance (C.O.P.)**

20	2.73	2.99	3.60	4.34	5.25	-	-	-	-
30	2.13	2.33	2.78	3.31	3.94	4.68	5.57	-	-
40	1.66	1.82	2.17	2.57	3.02	3.54	4.15	4.86	-
45	-	1.60	1.91	2.26	2.65	3.10	3.61	4.20	-
50	-	-	1.68	1.99	2.33	2.71	3.15	3.65	-
55	-	-	-	1.74	2.04	2.37	2.75	3.18	-
60	-	-	-	1.51	1.78	2.07	2.40	2.77	-
65	-	-	-	-	1.54	1.79	2.08	2.40	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	37 995	W
Power input	14 759	W
Current consumption	18.53	A
Mass flow	856	kg/h
C.O.P.	2.57	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 85 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	17 701	20 288	26 243	33 348	41 732	-	-	-	-
30	15 238	17 700	23 339	30 041	37 935	47 152	57 819	-	-
40	12 493	14 764	19 957	26 127	33 402	41 913	51 788	63 158	-
45	-	13 221	18 143	23 998	30 915	39 024	48 454	59 335	-
50	-	-	16 275	21 782	28 309	35 984	44 937	55 297	-
55	-	-	14 376	19 503	25 607	32 815	41 258	51 066	-
60	-	-	-	17 183	22 830	29 540	37 441	46 663	-
65	-	-	-	-	20 002	26 180	33 506	42 110	-

**Power input in W**

20	7 034	7 360	7 927	8 380	8 713	-	-	-	-
30	7 783	8 248	9 105	9 864	10 518	11 061	11 489	-	-
40	8 272	8 880	10 036	11 108	12 092	12 980	13 768	14 451	-
45	-	9 084	10 392	11 625	12 776	13 841	14 812	15 686	-
50	-	-	10 668	12 063	13 384	14 626	15 784	16 851	-
55	-	-	10 856	12 415	13 909	15 331	16 676	17 938	-
60	-	-	-	12 677	14 344	15 948	17 483	18 943	-
65	-	-	-	-	14 684	16 472	18 199	19 859	-

**Current consumption in A**

20	9.40	9.74	10.38	10.99	11.58	-	-	-	-
30	10.23	10.74	11.69	12.57	13.41	14.23	15.05	-	-
40	10.75	11.47	12.81	14.06	15.23	16.34	17.43	18.52	-
45	-	11.67	13.25	14.71	16.07	17.37	18.62	19.86	-
50	-	-	13.57	15.26	16.84	18.34	19.78	21.19	-
55	-	-	13.75	15.70	17.52	19.25	20.89	22.49	-
60	-	-	-	16.00	18.09	20.05	21.93	23.74	-
65	-	-	-	-	18.51	20.74	22.87	24.91	-

**Mass flow in kg/h**

20	339	386	493	617	760	-	-	-	-
30	318	366	476	603	749	918	1 111	-	-
40	288	337	447	576	724	894	1 089	1 311	-
45	-	319	429	557	706	876	1 072	1 293	-
50	-	-	408	536	684	854	1 049	1 271	-
55	-	-	383	511	658	828	1 023	1 244	-
60	-	-	-	482	629	798	991	1 212	-
65	-	-	-	-	595	763	956	1 175	-

**Coefficient of performance (C.O.P.)**

20	2.52	2.76	3.31	3.98	4.79	-	-	-	-
30	1.96	2.15	2.56	3.05	3.61	4.26	5.03	-	-
40	1.51	1.66	1.99	2.35	2.76	3.23	3.76	4.37	-
45	-	1.46	1.75	2.06	2.42	2.82	3.27	3.78	-
50	-	-	1.53	1.81	2.12	2.46	2.85	3.28	-
55	-	-	1.32	1.57	1.84	2.14	2.47	2.85	-
60	-	-	-	1.36	1.59	1.85	2.14	2.46	-
65	-	-	-	-	1.36	1.59	1.84	2.12	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	35 984	W
Power input	14 626	W
Current consumption	18.34	A
Mass flow	854	kg/h
C.O.P.	2.46	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 85 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	18 824	21 565	27 869	35 383	44 240	-	-	-	-
30	16 334	18 961	24 975	32 112	40 509	50 301	61 623	-	-
40	13 530	15 978	21 569	28 199	36 006	45 126	55 694	67 846	-
45	-	14 400	19 729	26 057	33 521	42 256	52 400	64 089	-
50	-	-	17 828	23 821	30 908	39 228	48 917	60 112	-
55	-	-	-	21 512	28 191	36 064	45 268	55 940	-
60	-	-	-	19 153	25 393	32 789	41 479	51 601	-
65	-	-	-	-	22 540	29 430	37 579	47 128	-

**Power input in W**

20	7 034	7 360	7 927	8 380	8 713	-	-	-	-
30	7 783	8 248	9 105	9 864	10 518	11 061	11 489	-	-
40	8 272	8 880	10 036	11 108	12 092	12 980	13 768	14 451	-
45	-	9 084	10 392	11 625	12 776	13 841	14 812	15 686	-
50	-	-	10 668	12 063	13 384	14 626	15 784	16 851	-
55	-	-	-	12 415	13 909	15 331	16 676	17 938	-
60	-	-	-	12 677	14 344	15 948	17 483	18 943	-
65	-	-	-	-	14 684	16 472	18 199	19 859	-

**Current consumption in A**

20	9.40	9.74	10.38	10.99	11.58	-	-	-	-
30	10.23	10.74	11.69	12.57	13.41	14.23	15.05	-	-
40	10.75	11.47	12.81	14.06	15.23	16.34	17.43	18.52	-
45	-	11.67	13.25	14.71	16.07	17.37	18.62	19.86	-
50	-	-	13.57	15.26	16.84	18.34	19.78	21.19	-
55	-	-	-	15.70	17.52	19.25	20.89	22.49	-
60	-	-	-	16.00	18.09	20.05	21.93	23.74	-
65	-	-	-	-	18.51	20.74	22.87	24.91	-

**Mass flow in kg/h**

20	337	384	490	613	756	-	-	-	-
30	316	365	473	599	745	913	1 104	-	-
40	286	335	445	572	720	889	1 083	1 303	-
45	-	317	427	554	702	871	1 065	1 286	-
50	-	-	405	533	680	849	1 043	1 264	-
55	-	-	-	508	654	823	1 017	1 237	-
60	-	-	-	480	625	793	986	1 205	-
65	-	-	-	-	592	759	950	1 168	-

**Coefficient of performance (C.O.P.)**

20	2.68	2.93	3.52	4.22	5.08	-	-	-	-
30	2.10	2.30	2.74	3.26	3.85	4.55	5.36	-	-
40	1.64	1.80	2.15	2.54	2.98	3.48	4.05	4.70	-
45	-	1.59	1.90	2.24	2.62	3.05	3.54	4.09	-
50	-	-	1.67	1.97	2.31	2.68	3.10	3.57	-
55	-	-	-	1.73	2.03	2.35	2.71	3.12	-
60	-	-	-	1.51	1.77	2.06	2.37	2.72	-
65	-	-	-	-	1.54	1.79	2.06	2.37	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	40 353	W
Power input	15 843	W
Current consumption	19.86	A
Mass flow	909	kg/h
C.O.P.	2.55	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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**Performance data at 90 Hz, EN 12900 rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	18 357	21 081	27 347	34 813	43 612	-	-	-	-
30	15 929	18 541	24 509	31 580	39 884	49 556	60 727	-	-
40	13 127	15 556	21 086	27 619	35 289	44 227	54 567	66 440	-
45	-	13 956	19 213	25 425	32 725	41 244	51 115	62 470	-
50	-	-	17 264	23 120	30 015	38 079	47 447	58 249	-
55	-	-	15 263	20 728	27 181	34 757	43 585	53 800	-
60	-	-	-	18 271	24 249	31 299	39 554	49 146	-
65	-	-	-	-	21 241	27 731	35 377	44 311	-

**Power input in W**

20	7 463	7 821	8 461	8 997	9 430	-	-	-	-
30	8 273	8 774	9 708	10 552	11 305	11 967	12 538	-	-
40	8 824	9 472	10 711	11 872	12 955	13 959	14 885	15 733	-
45	-	9 704	11 098	12 421	13 672	14 852	15 959	16 994	-
50	-	-	11 397	12 885	14 307	15 663	16 954	18 179	-
55	-	-	11 599	13 253	14 849	16 385	17 862	19 279	-
60	-	-	-	13 518	15 290	17 008	18 673	20 285	-
65	-	-	-	-	15 620	17 523	19 379	21 188	-

**Current consumption in A**

20	9.69	10.09	10.83	11.50	12.18	-	-	-	-
30	10.74	11.33	12.40	13.38	14.31	15.25	16.25	-	-
40	11.33	12.15	13.66	15.03	16.30	17.53	18.78	20.11	-
45	-	12.37	14.13	15.72	17.20	18.61	20.02	21.48	-
50	-	-	14.46	16.30	18.00	19.62	21.21	22.83	-
55	-	-	14.63	16.75	18.70	20.55	22.34	24.14	-
60	-	-	-	17.05	19.27	21.37	23.39	25.39	-
65	-	-	-	-	19.70	22.07	24.34	26.57	-

**Mass flow in kg/h**

20	351	401	513	644	794	-	-	-	-
30	332	384	500	633	788	965	1 167	-	-
40	303	355	473	609	765	944	1 148	1 379	-
45	-	336	454	590	747	926	1 130	1 362	-
50	-	-	432	568	725	904	1 108	1 339	-
55	-	-	407	543	698	877	1 080	1 311	-
60	-	-	-	513	668	845	1 047	1 277	-
65	-	-	-	-	632	808	1 009	1 237	-

**Coefficient of performance (C.O.P.)**

20	2.46	2.70	3.23	3.87	4.62	-	-	-	-
30	1.93	2.11	2.52	2.99	3.53	4.14	4.84	-	-
40	1.49	1.64	1.97	2.33	2.72	3.17	3.67	4.22	-
45	-	1.44	1.73	2.05	2.39	2.78	3.20	3.68	-
50	-	-	1.51	1.79	2.10	2.43	2.80	3.20	-
55	-	-	1.32	1.56	1.83	2.12	2.44	2.79	-
60	-	-	-	1.35	1.59	1.84	2.12	2.42	-
65	-	-	-	-	1.36	1.58	1.83	2.09	-

**Nominal performance at to = 5 °C, tc = 50 °C**

Cooling capacity	38 079	W
Power input	15 663	W
Current consumption	19.62	A
Mass flow	904	kg/h
C.O.P.	2.43	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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**Performance data at 90 Hz, ARI rating conditions**
**R407C**

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-17.5	-15	-10	-5	0	5	10	15

**Cooling capacity in W**

20	19 521	22 408	29 041	36 938	46 234	-	-	-	-
30	17 075	19 863	26 227	33 757	42 590	52 866	64 721	-	-
40	14 217	16 836	22 789	29 810	38 040	47 618	58 683	71 372	-
45	-	15 200	20 893	27 608	35 484	44 661	55 278	67 475	-
50	-	-	18 912	25 284	32 770	41 512	51 649	63 321	-
55	-	-	-	22 862	29 925	38 197	47 821	58 936	-
60	-	-	-	20 366	26 971	34 742	43 820	54 348	-
65	-	-	-	-	23 936	31 174	39 678	49 591	-

**Power input in W**

20	7 463	7 821	8 461	8 997	9 430	-	-	-	-
30	8 273	8 774	9 708	10 552	11 305	11 967	12 538	-	-
40	8 824	9 472	10 711	11 872	12 955	13 959	14 885	15 733	-
45	-	9 704	11 098	12 421	13 672	14 852	15 959	16 994	-
50	-	-	11 397	12 885	14 307	15 663	16 954	18 179	-
55	-	-	-	13 253	14 849	16 385	17 862	19 279	-
60	-	-	-	13 518	15 290	17 008	18 673	20 285	-
65	-	-	-	-	15 620	17 523	19 379	21 188	-

**Current consumption in A**

20	9.69	10.09	10.83	11.50	12.18	-	-	-	-
30	10.74	11.33	12.40	13.38	14.31	15.25	16.25	-	-
40	11.33	12.15	13.66	15.03	16.30	17.53	18.78	20.11	-
45	-	12.37	14.13	15.72	17.20	18.61	20.02	21.48	-
50	-	-	14.46	16.30	18.00	19.62	21.21	22.83	-
55	-	-	-	16.75	18.70	20.55	22.34	24.14	-
60	-	-	-	17.05	19.27	21.37	23.39	25.39	-
65	-	-	-	-	19.70	22.07	24.34	26.57	-

**Mass flow in kg/h**

20	350	399	511	640	790	-	-	-	-
30	330	382	497	630	783	959	1 160	-	-
40	301	353	470	605	761	938	1 141	1 370	-
45	-	335	452	587	743	921	1 124	1 353	-
50	-	-	430	565	721	899	1 101	1 331	-
55	-	-	-	540	694	872	1 074	1 303	-
60	-	-	-	510	664	840	1 041	1 269	-
65	-	-	-	-	629	804	1 003	1 230	-

**Coefficient of performance (C.O.P.)**

20	2.62	2.87	3.43	4.11	4.90	-	-	-	-
30	2.06	2.26	2.70	3.20	3.77	4.42	5.16	-	-
40	1.61	1.78	2.13	2.51	2.94	3.41	3.94	4.54	-
45	-	1.57	1.88	2.22	2.60	3.01	3.46	3.97	-
50	-	-	1.66	1.96	2.29	2.65	3.05	3.48	-
55	-	-	-	1.72	2.02	2.33	2.68	3.06	-
60	-	-	-	1.51	1.76	2.04	2.35	2.68	-
65	-	-	-	-	1.53	1.78	2.05	2.34	-

**Nominal performance at to = 7.2 °C, tc = 54.4 °C**

Cooling capacity	42 690	W
Power input	16 951	W
Current consumption	21.22	A
Mass flow	961	kg/h
C.O.P.	2.52	

**Pressure switch settings**

Maximum HP switch setting	29.4	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	1.3	bar(g)

**Sound power data**

Sound power level	0	dB(A)
With acoustic hood	0	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

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